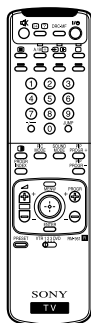
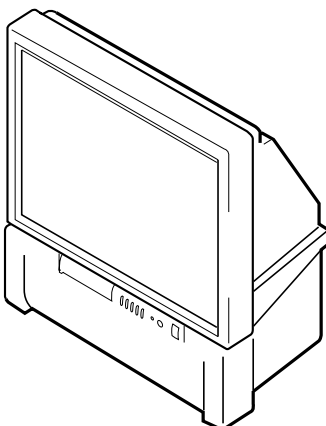


SERVICE MANUAL RG-3A CHASSIS

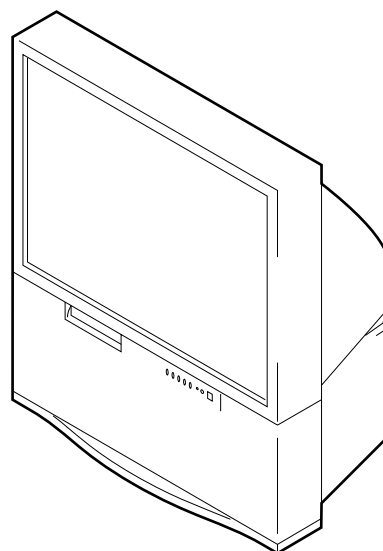
| <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> | <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> |
|-------------------|------------------|--------------|--------------------|-------------------|------------------|--------------|--------------------|
| KP-ER43M31 | RM-961 | AUS | SCC-P87A-A | KP-ER53M31 | RM-961 | AUS | SCC-P87B-A |
| KP-ER43M61 | RM-961 | GE | SCC-P85A-A | KP-ER53M61 | RM-961 | GE | SCC-P85B-A |
| KP-ER43M90 | RM-961 | HK | SCC-P84A-A | KP-ER53M90 | RM-961 | HK | SCC-P84B-A |
| KP-ER43M91 | RM-961 | ME | SCC-P86A-A | KP-ER53M91 | RM-961 | ME | SCC-P86B-A |



RM-961








KP-ER43M31/ER43M61
/ER43M90/ER43M91



KP-ER53M31/ER53M61
/ER53M90/ER53M91

PROJECTION TV
SONY®

SPECIFICATIONS

| | KP-ER53M90/KP-ER53M91 KP-ER53M61/KP-ER53M31 | KP-ER43M90/KP-ER43M91 KP-ER43M61/KP-ER43M31 |
|--|--|--|
| Projection system | 3 picture tubes, 3 lenses, horizontal inline system | |
| Picture tube | 7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system | |
| Projection lenses | High performance, large-diameter hybrid lens F1.0 | |
| Screen size | 53 inches | 43 inches |
| Television system | B/G, I, D/K, M | |
| Color system | PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58 | |
| Stereo/Bilingual system | NICAM Stereo/Bilingual B/G, I; A2 Stereo/Bilingual (German) B/G | |
| Channel coverage | VHF : E2 to E12 / UHF : E21 to E69 / CATV : S01 to S03, S1 to S41 | |
| B/G | UHF : B21 to B68 / CATV : S01 to S03, S1 to S41 | |
| I | VHF : C1 to C12, R1 to R12 / UHF : C13 to C57, R21 to R60 / CATV : S01 to S03, S1 to S41, Z1 to Z39 | |
| D/K | VHF : A2 to A13 / UHF : A14 to A79 / CATV : A-8 to A-2, A to W+4, W+6 to W+84 | |
| M | | |
| Antenna | 75-ohm external terminal | |
| Audio output (Speaker) | 15W + 15W (10% distortion) | |
| Number of terminal | | |
|  (Video) | Input: 4 Output: 1 | Phono jacks; 1 Vp-p, 75 ohms |
|  (Audio) | Input: 4 Output: 1 | Phono jacks; 500 mVrms |
|  (S Video) | Input: 2 | Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms |
|  (Component Video) | Input: 1 | Phono jacks Y: 1 Vp-p, 75 ohms, sync negative Cb/B-Y: 0.7 Vp-p, 75 ohms Cr/R-Y: 0.7 Vp-p, 75 ohms Audio: 500 mVrms |
|  (Headphones) | Output: 1 | Phono jack; 500 mVrms |
| Power requirements | 110 V – 240 V (KP-ER53M91 / KP-ER43M91 / KP-ER53M61 / KP-ER43M61) 220 V – 240 V (KP-ER53M90 / KP-ER43M90 / KP-ER53M31 / KP-ER43M31) | |
| Power consumption (W) | 270 W (KP-ER53M91 / KP-ER43M91 / KP-ER53M61 / KP-ER43M61) 255 W (KP-ER53M90 / KP-ER43M90 / KP-ER53M31 / KP-ER43M31) | |
| Dimensions (w/h/d, mm) | 1180 × 1427 × 623 | 966 × 1074 × 505 |
| Mass (kg) | 79 | 60 |

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

| <i>Section</i> | <i>Title</i> | <i>Page</i> | <i>Section</i> | <i>Title</i> | <i>Page</i> |
|-------------------------------------|--|-------------|----------------------------------|--|-------------|
| 1. SELF DIAGNOSIS FUNCTION | | | 5. ELECTRICAL ADJUSTMENTS | | |
| 1-1. | Diagnostic Test Indicators | 5 | 5-1. | Adjustments with Commander | |
| 1-2. | Display of STANDBY/TIMER | | 5-1-1. | How to Select Each Mode | 18 |
| | Light Flash Count | 6 | 5-1-2. | How to Enter Service Mode | 19 |
| 1-3. | Stopping the STANDBY/TIMER Flash | 6 | 5-1-3. | Method of Cancellation | |
| 1-4. | Self-Diagnostic Screen Display | 7 | | from Service Mode | 19 |
| 1-5. | Handling of Self-Diagnostic | | 5-1-4. | How to Adjustments | 19 |
| | Screen Display | 7 | 5-1-5. | How to Write the Data | 19 |
| 1-6. | Self-Diagnostic Circuit | 8 | 5-1-6. | Memory Write Confirmation Method | 19 |
| 2. DISASSEMBLY | | | 5-2. | Service List | 20 |
| 2-1. | Rear Board Removal | 9 | 5-3. | Picture Quality Adjustment | |
| 2-2. | Main Bracket Block Removal | 9 | 5-3-1. | Preparation | 34 |
| 2-3. | Service Position | 10 | 5-3-2. | NTSC Video Input | 34 |
| 2-4. | H1, H2 Boards and Resistor (Focus Pack) | | 5-3-3. | NTSC RF Input | 35 |
| | Removal | 10 | 5-3-4. | PAL Video Input | 35 |
| 2-5. | Main Bracket Removal | 11 | 5-3-5. | PAL RF Input | 36 |
| 2-6. | Chassis Block Removal | 11 | 5-4. | Color Offset (53, 61 inch model only) | |
| 2-7. | Terminal Board Removal | 12 | 5-4-1. | 50 Hz (PAL) TV Mode | 36 |
| 2-8. | BD, DS and D Boards Removal | 12 | 5-4-2. | 50 Hz (PAL) Video Mode | 36 |
| 2-9. | G and G1 Board Removal | 13 | 5-4-3. | 60 Hz (NTSC) TV Mode | 36 |
| 2-10. | J1, B3, E and M1 Boards Removal | 13 | 5-4-4. | 60 Hz (NTSC) Video Mode | 36 |
| 2-11. | A1 Board Removal | 14 | 5-5. | Registration Adjustment | |
| 2-12. | High-Voltage Cable Installation and Removal .. | 14 | 5-5-1. | Setup for Adjustment | 37 |
| 2-13. | Mechaseal | 14 | 5-5-2. | Method of Main Deflection Adjustment | 37 |
| 3. SET-UP ADJUSTMENTS | | | 5-5-3. | Operation Method | |
| 3-1. | Screen Voltage Adjustment | | | for Projector Engine (PJE) Mode | 38 |
| | (Rough Alignment) | 15 | 5-5-4. | Method of Projector Engine Adjustment | |
| 3-2. | Screen (G2) Adjustment | 15 | | (Sub Deflection Adjustment) | 39 |
| 3-3. | Focus Rough Adjustment | 15 | 5-5-5. | Deflection Adjustment | 41 |
| 2-4. | Deflection Yoke Tilt Adjustment | 15 | 5-6. | Auto Convergence Setting | 47 |
| 3-5. | 2-Pole Magnet Adjustment | 16 | 5-7. | White Balance Adjustment | 47 |
| 3-6. | 4-Pole Magnet Adjustment | 16 | 5-8. | Auto Convergence Error Code List | 48 |
| 3-7. | Green, Red and Blue Focus Adjustment | | | | |
| 3-7-1. | Green, Red and Blue Lens Focus | | | | |
| | Adjustment | 16 | | | |
| 3-7-2. | Green, Red and Blue Electrical Focus | | | | |
| | Adjustment | 16 | | | |
| 4. SAFETY RELATED ADJUSTMENT | | | | | |
| 4-1. | HV Hold-Down Adjustment | 17 | | | |

| <u>Section</u> | <u>Title</u> | <u>Page</u> |
|---------------------------------|---|-------------|
| 6. DIAGRAMS | | |
| 6-1. | Block Diagrams | 49 |
| 6-2. | Frame Schematic Diagram | 62 |
| 6-3. | Circuit Boards Location | 63 |
| 6-4. | Schematic Diagrams | 63 |
| 6-5. | Printed Wiring Boards | 97 |
| 6-6. | Wave Forms | 110 |
| 6-7. | IC Block Diagrams | 117 |
| 6-8. | Semiconductors | 119 |
| 7. EXPLODED VIEWS | | |
| 7-1. | Screen and Cover Block (KP-ER43) | 122 |
| 7-2. | Screen and Cover Block (KP-ER53) | 123 |
| 7-3. | Cabinet and Panel Block (KP-ER43) | 124 |
| 7-4. | Cabinet and Panel Block (KP-ER53) | 125 |
| 7-5. | Main Bracket Block | 126 |
| 7-6. | Picture Tube Block | 127 |
| 8. ELECTRICAL PARTS LIST | | |
| | | 128 |

SECTION 1

SELF DIAGNOSIS FUNCTION

The unit in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1-1. DIAGNOSTIC TEST INDICATORS

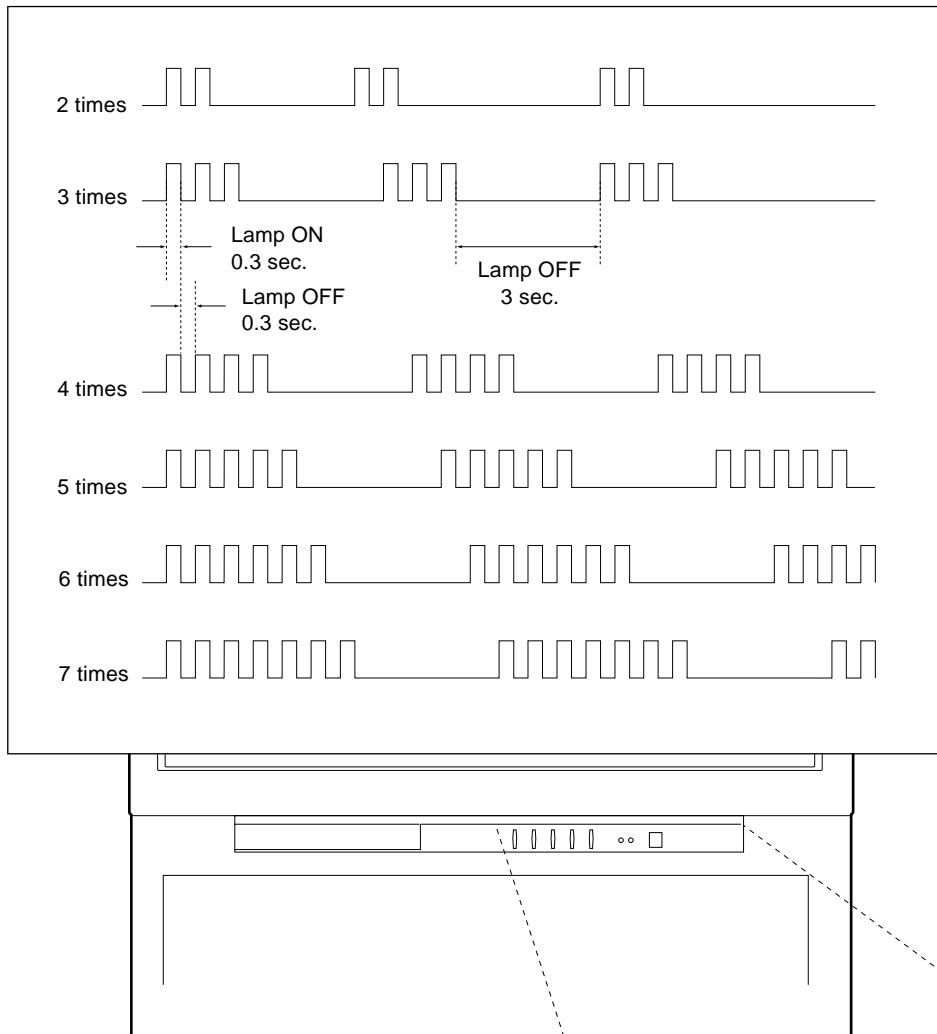
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

| Diagnostic Item Description | No. of times STANDBY/TIMER lamp flashes | Self-diagnostic display/ Diagnostic result | Probable Cause Location | Detected Symptoms |
|--------------------------------------|---|--|--|--|
| • Power does not turn on | Does not light | _____ | <ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse (F6001) is burned out. (G, G1 board) | <ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the PJ. • AC power supply is faulty. |
| • +B overcurrent (OCP) | 2 times | 002:000 or 002:001 ~ 255 | <ul style="list-style-type: none"> • H. OUT Q5104 is shorted. • H. LIN Q5105 is shorted. (D board) | <ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted. |
| • +B overvoltage (OVP) | 3 times | 003:000 or 003:001 ~ 255 | <ul style="list-style-type: none"> • IC6002 faulty. • 10.5 V is not supplied. (G, G1 board) | <ul style="list-style-type: none"> • Power does not come on. |
| • Vertical deflection failure | 4 times | 004:000 or 004:001 ~ 255 | <ul style="list-style-type: none"> • V. OUT IC5302 faulty. • R5340 open • R5341 open (D board) | <ul style="list-style-type: none"> • Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped. |
| • White balance failure (no PICTURE) | 5 times | 005:000 or 005:001 ~ 255 | <ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 1) • CRT problem. • Video OUT IC7101 (CR board), IC7201 (CG board), IC7301 (CB board) are faulty. • IC8306 (J1 board) and IC4301 (E board) are faulty. • No connection E board to CR board. | <ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small. |
| • High Voltage failure | 6 times | 006:000 or 006:001 ~ 255 | <ul style="list-style-type: none"> • IC6301 (G, G1 bard) faulty. | <ul style="list-style-type: none"> • +135 V is too high. |
| • Audio Protection | 7 times | 007:000 or 007:001 ~ 255 | <ul style="list-style-type: none"> • Power supply fails. • IC1101 (A1 board) faulty. | <ul style="list-style-type: none"> • There is picture but speaker does not release sound. |
| • Micro reset | _____ | 101:000 or 101:001 ~ 255 | <ul style="list-style-type: none"> • Discharge CRT (CR, CG, CB boards) • Static discharge • External noise | <ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up. |

Note 1 : Refer to screen (G2) adjustment in section 4-2 of this manual.

1-2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT

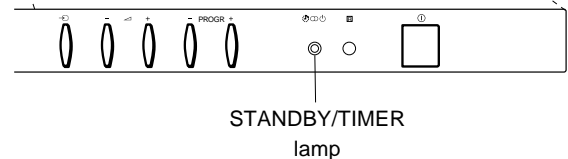


Diagnostic Item

+B overcurrent
+B overvoltage
V deflection stop
White balance failure
High voltage protector
Audio Protection

Flash Count *

2 times
3 times
4 times
5 times
6 times
7 times



* One flash count is not used for self-diagnostic.

1-3. STOPPING THE STANDBY/TIMER FLASH

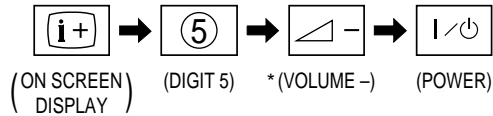
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

1-4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

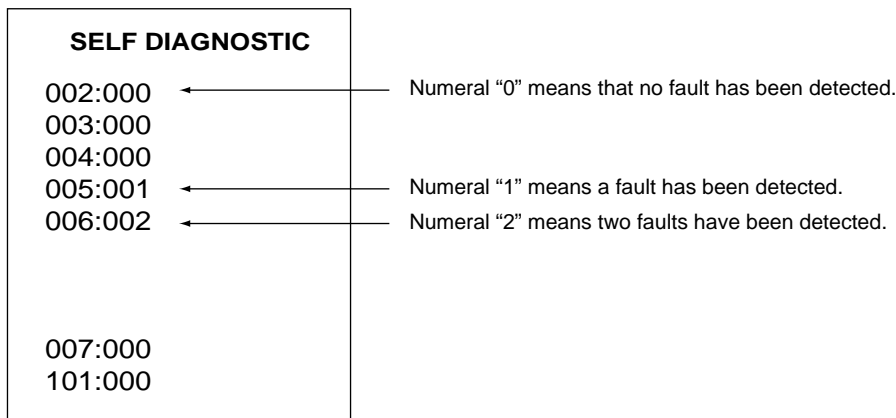
[To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



* : Note that this differs from entering the service mode (volume +)

Self-Diagnosis screen display



1-5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

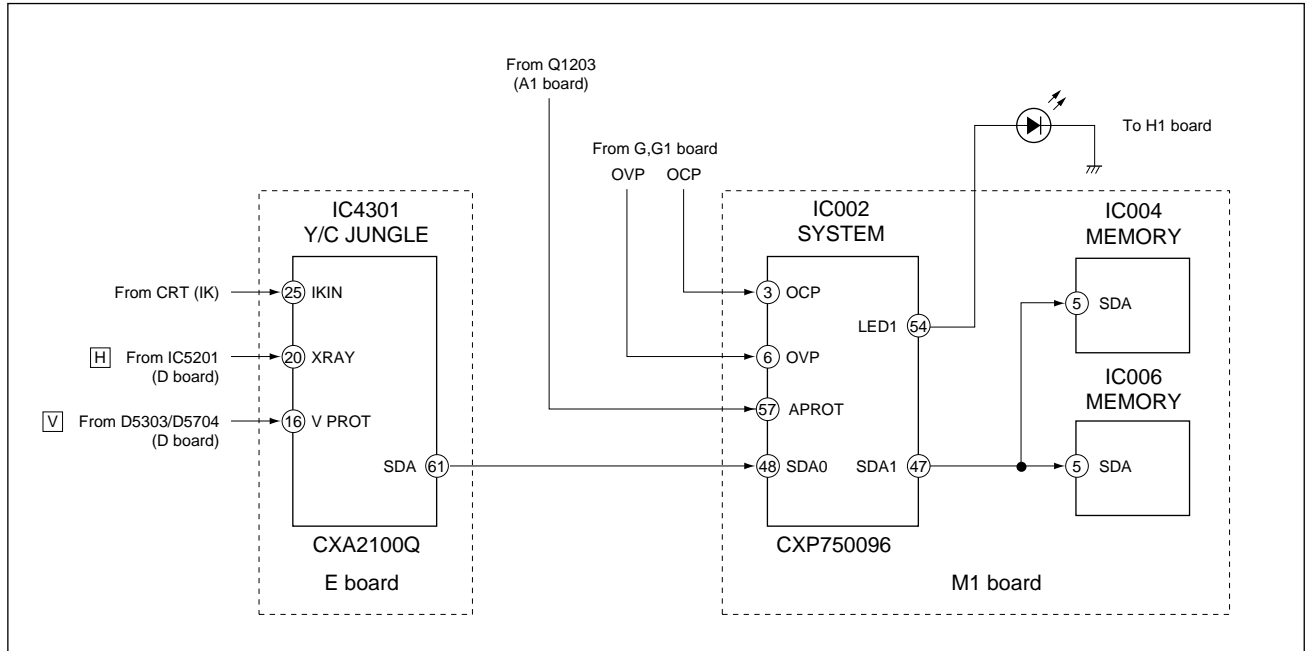
To clear the result display to “0”, press button on the remote commander sequentially as shown below when the diagnostic screen is being displayed.



[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

1-6. SELF-DIAGNOSTIC CIRCUIT

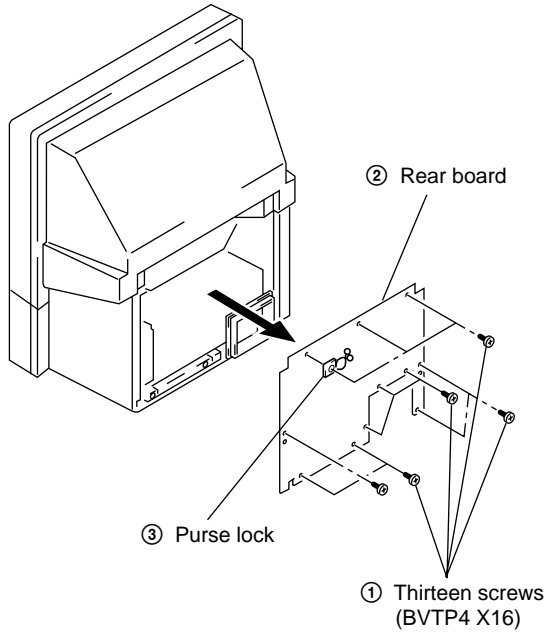


| | |
|---|---|
| +B overcurrent (OCP) | Occurs when an overcurrent on the +B (135 V) line is detected by Q6303. If Q6303 go to ON, the voltage to pin 3 of IC002 go to UP. The unit will automatically turn off. |
| +B overvoltage (OVP) | Occurs when an overvoltage on the +B (135 V) line is detected by D6318. If D6318 go to ON, then voltage to pin 6 of IC002 go to UP. The unit will automatically turn off. |
| Vertical deflection failure | Occurs when an absence of the vertical deflection pulse is detected by Q5302, Q5303, and D5303. Shut down the power supply. |
| White balance failure | If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture. |
| High voltage protector of Horizontal Deflection | Occurs when an overvoltage of horizontal pulse is detected by D5115 and IC5201. If the voltage of pin 1 of IC5201 goes to High, the voltage to pin 20 of IC4301 go to UP. The unit will automatically turn off. |
| Audio Protector | If the Audio out lines become DC. This error will be detected by Q1202, Q1204 and Q1203. The unit will automatically turn off. |

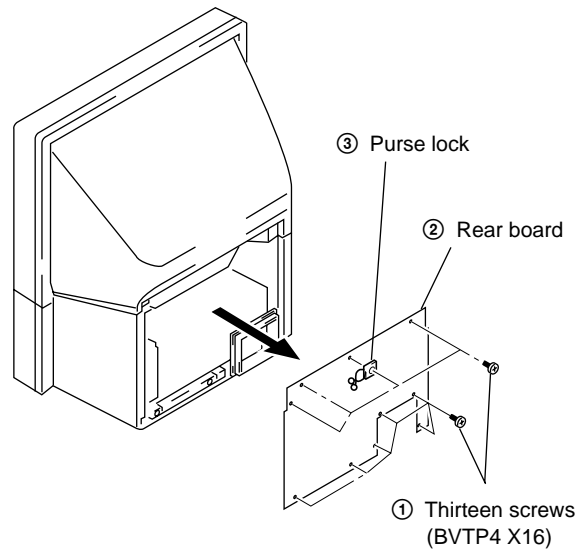
SECTION 2 DISASSEMBLY

2-1. REAR BOARD REMOVAL

(1) KP-ER43

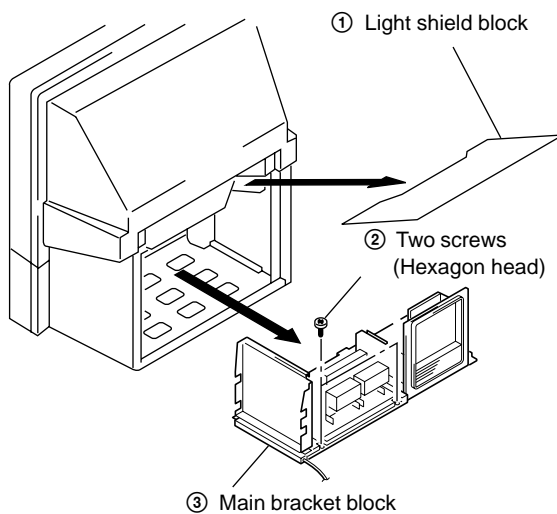


(2) KP-ER53

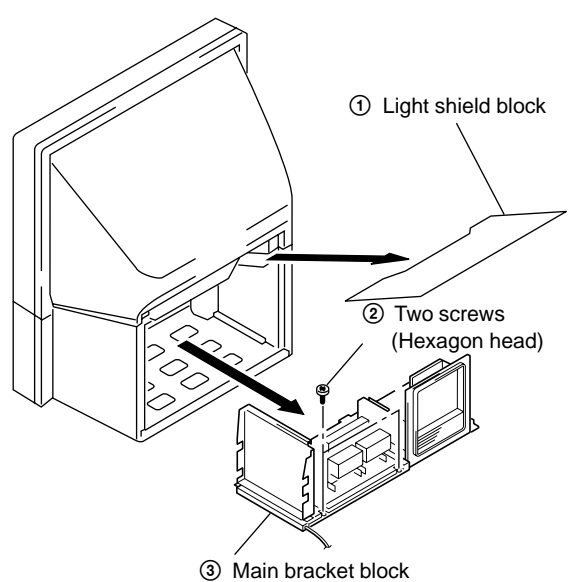


2-2. MAIN BRACKET BLOCK REMOVAL

(1) KP-ER43

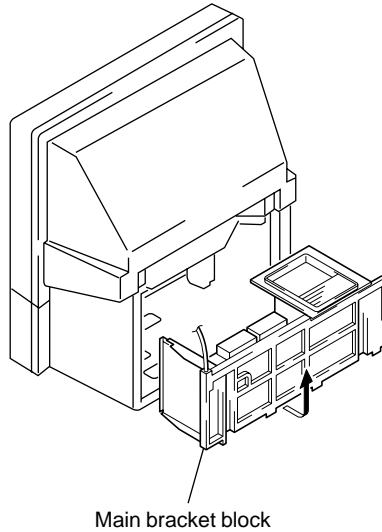


(2) KP-ER53

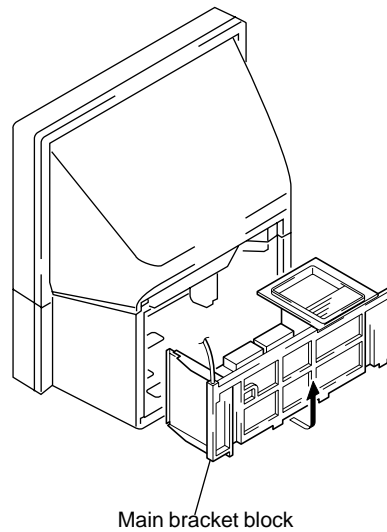


2-3. SERVICE POSITION

(1) KP-ER43

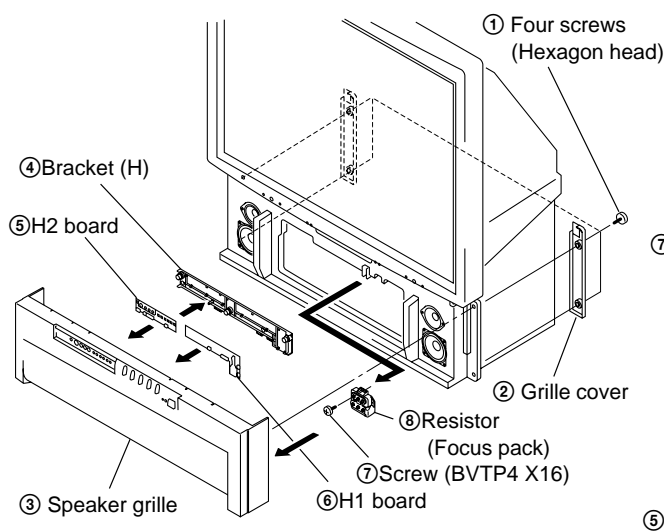


(2) KP-ER53

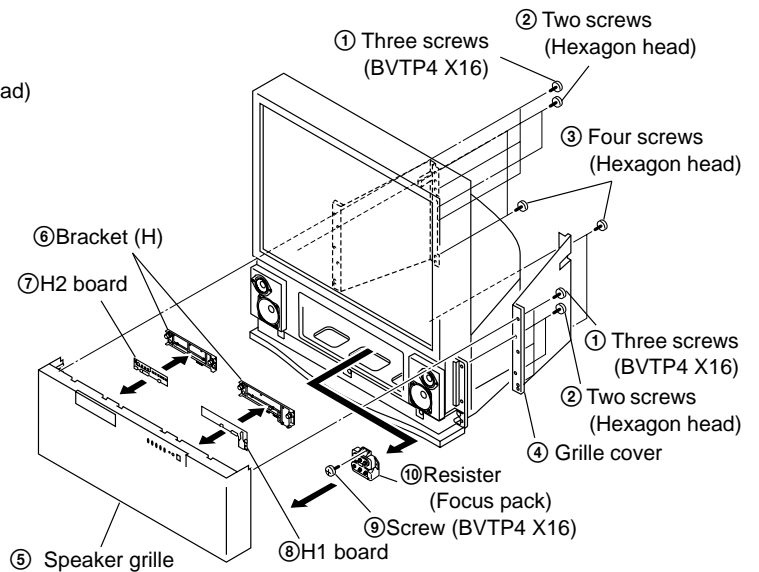


2-4. H1, H2 BOARDS AND RESISTOR (FOCUS PACK) REMOVAL

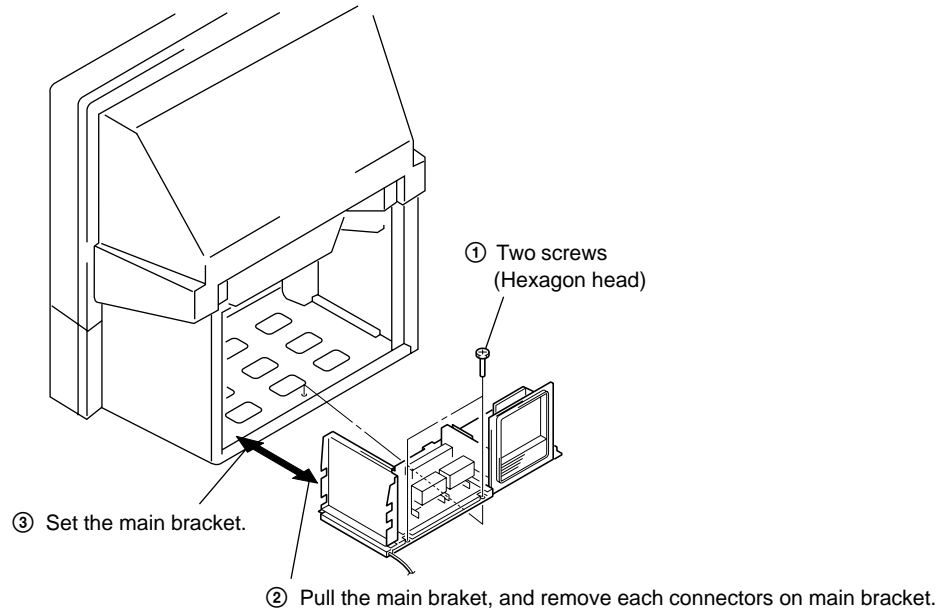
(1) KP-ER43



(2) KP-ER53

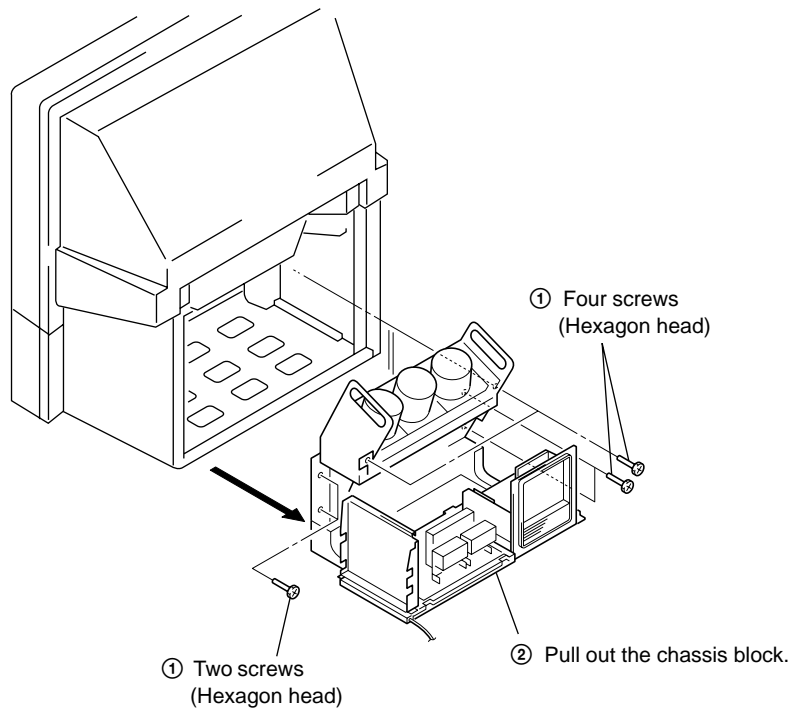


2-5. MAIN BRACKET REMOVAL



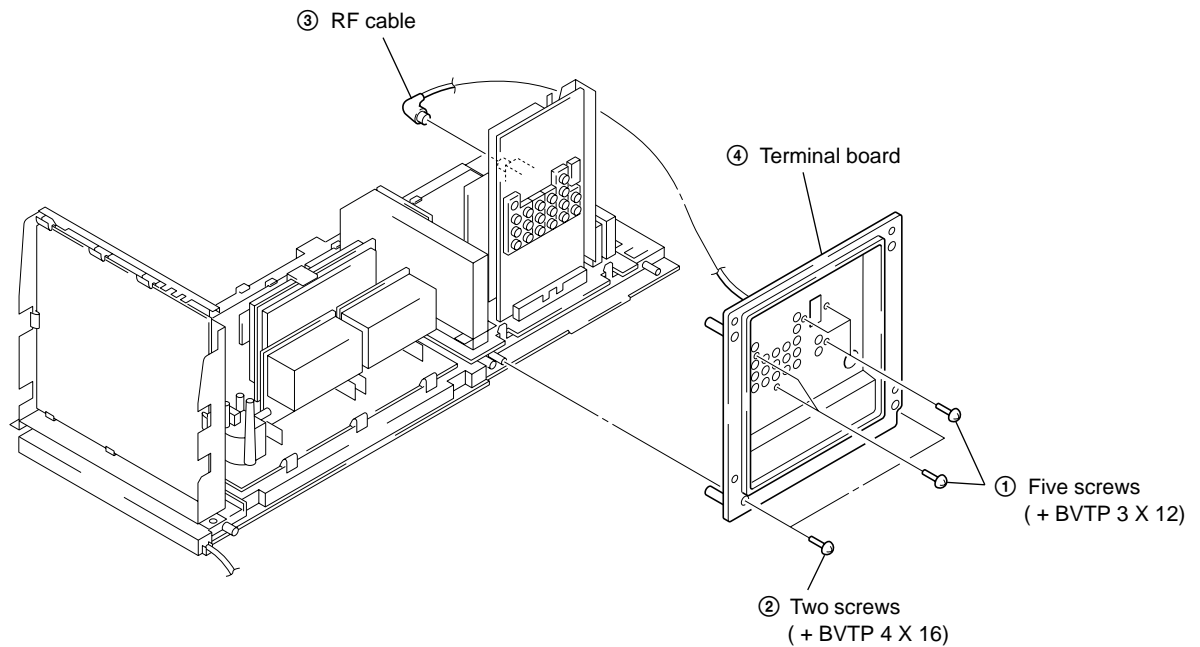
※ Pay particular attention to the wires of each printed circuit boards when pulling out the main bracket.

2-6. CHASSIS BLOCK REMOVAL

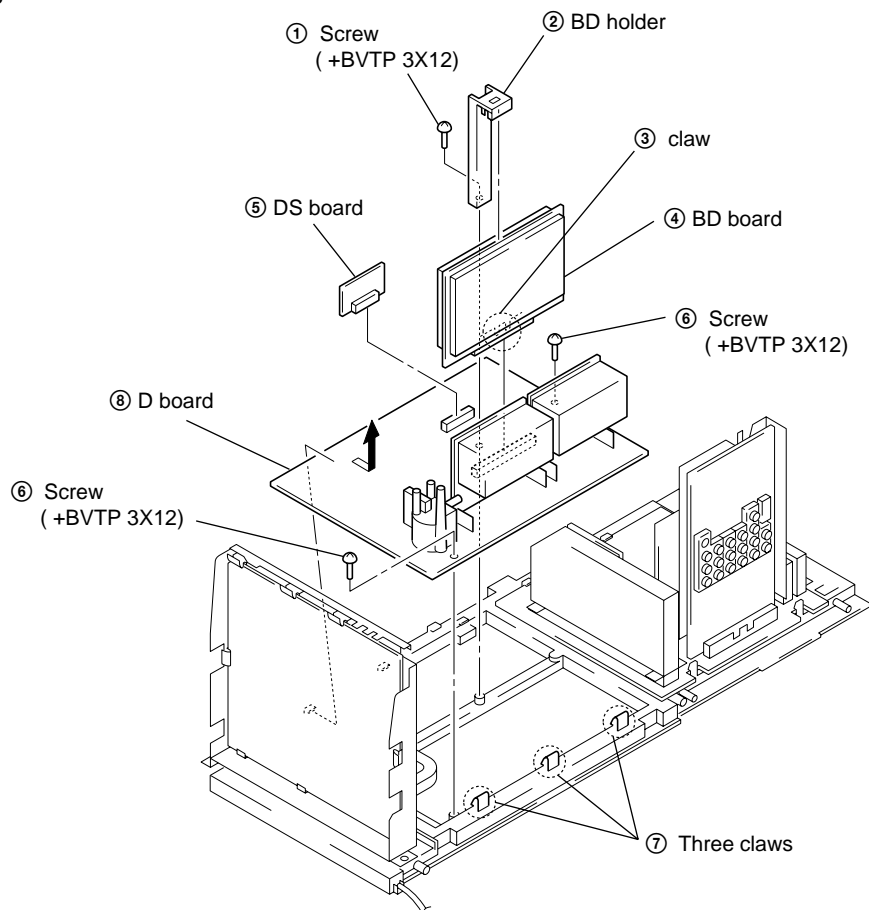


※ Pull out the chassis block by gripping the handles as shown in the diagram. At this time, pay particular attention to the components removed in (1).

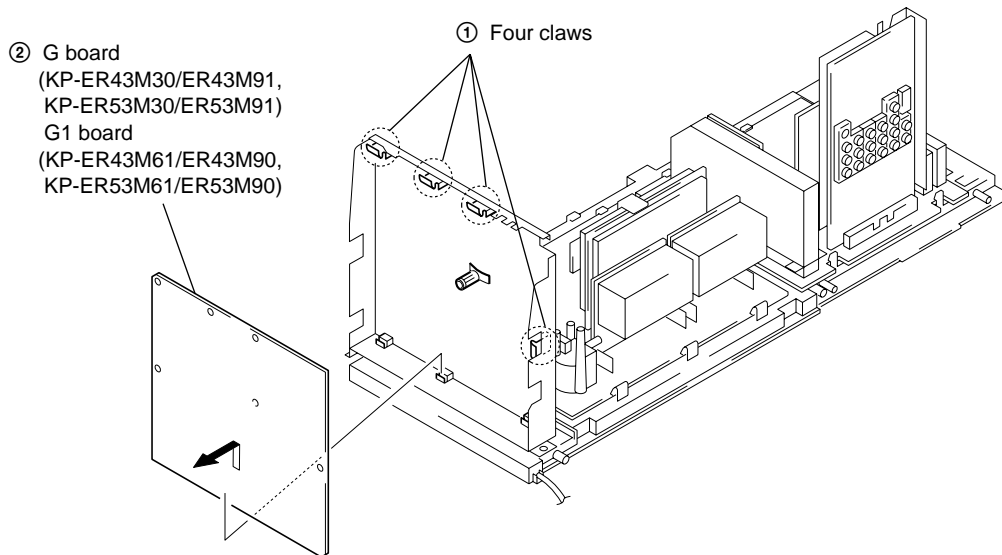
2-7. TERMINAL BOARD REMOVAL



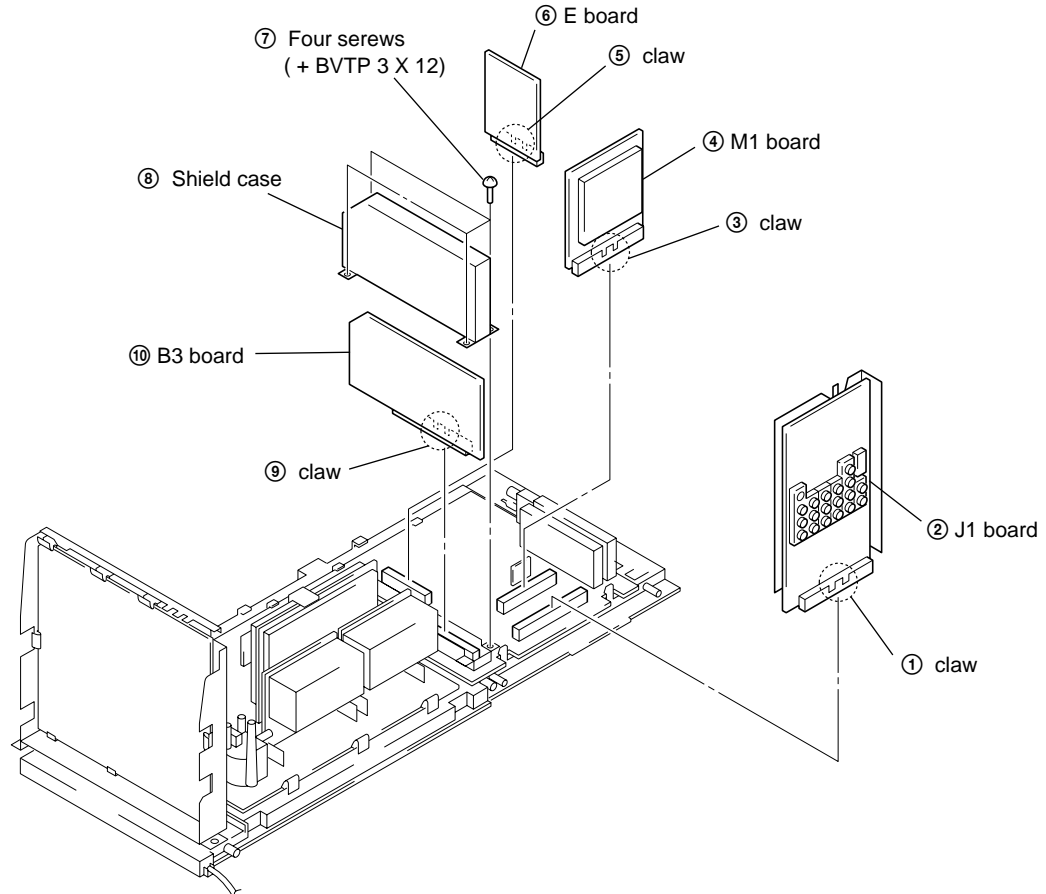
2-8. BD, DS AND D BOARDS REMOVAL



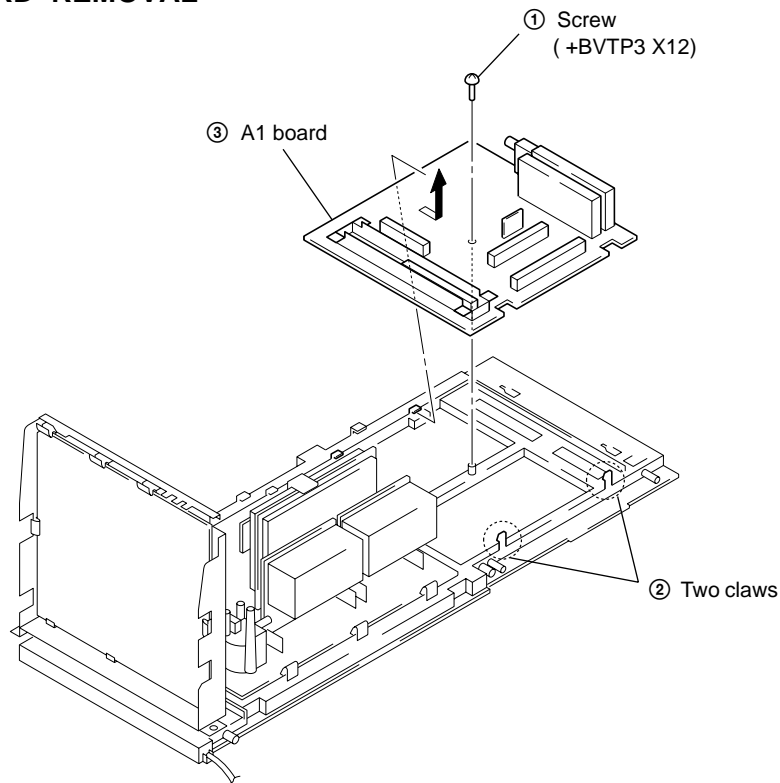
2-9. G AND G1 BOARD REMOVAL



2-10. J1, B3, E AND M1 BOARDS REMOVAL



2-11. A1 BOARD REMOVAL

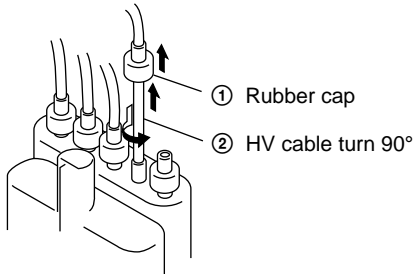


2-12. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

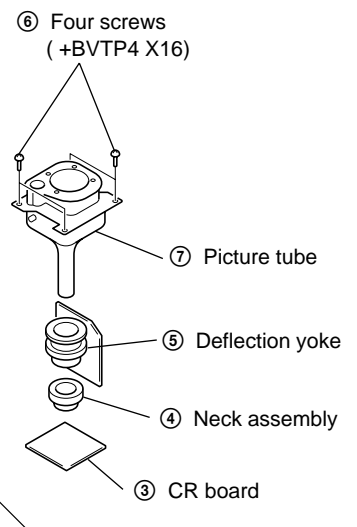
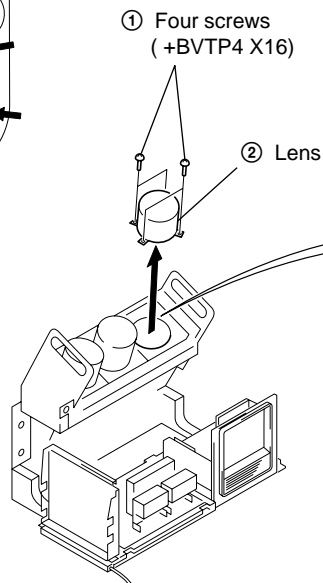
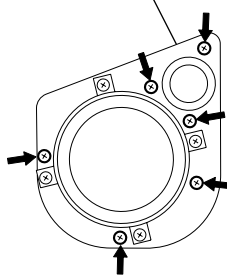
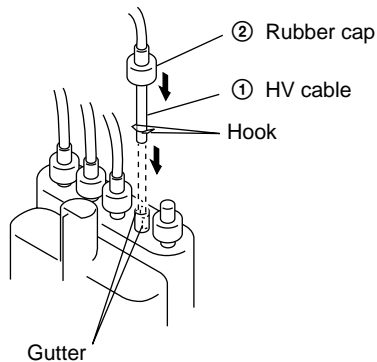
2-13. MECHASEAL

Removing the arrow-marked screw is strictly inhibited. If removed, it may cause liquid spill.

(1) Remover



(2) Installation



SECTION 3

SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

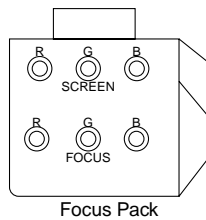


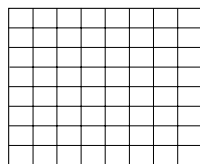
Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT

1. Turn on the power of the set.
2. Select VIDEO1 mode without signals.
3. Supply DC 175 \pm 0.5 V from external power supply to TP7103 (KR), TP7203 (KG) or TP7303 (KB) of CR board, CG board and CB board.
3. Adjust red, green and blue screen voltage to until retrace line disappears with screen VR on the focus pack.

3-3. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 5.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press “①” or “④” button on the commander and select “PJE”, press “⑥” three times on the Commander to display the test signal (crosshatch) on the screen.



Test signal

Fig. 3-2

5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus in the top right corner.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

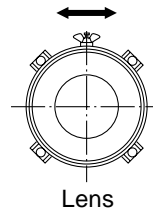


Fig. 3-3

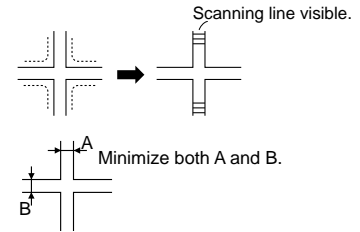
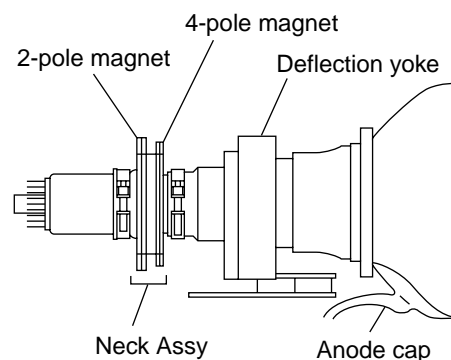


Fig. 3-4

3-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 3-5

3-5. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
(center of the dot doesn't move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

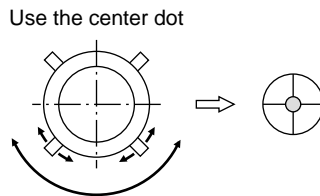


Fig. 3-6

3-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

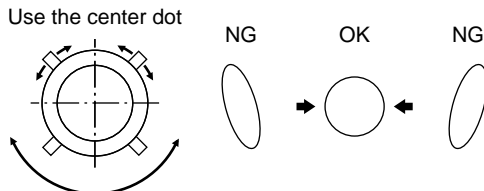


Fig. 3-7

3-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

3-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus at the center area.
4. Fix lens screw.
5. Repeat above process for red and blue.

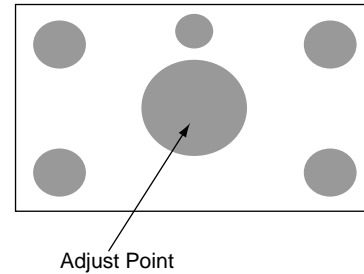


Fig. 3-8

3-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus in the adjust point.
4. Repeat above process for red and blue.
5. Repeat adjustment items 3-3. FOCUS ROUGH ADJUSTMENT, 3-5. 2-POLE MAGNET ADJUSTMENT, 3-6. 4-POLE MAGNET ADJUSTMENT and 3-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT, and adjust to obtain the best focus.

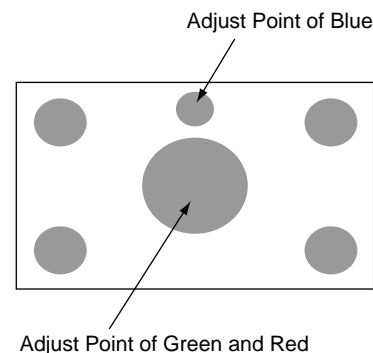




Fig. 3-9

SECTION 4

SAFETY RELATED ADJUSTMENT

When replacing the following components marked with  on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

| Part Replaced () |
|---|
| R9901 |

| Part Replaced () |
|--|
| D Board C5117, C5123, C5127, C5143, D5115, D5204, Q5104, R5136, R5138, R5140, R9901, T5102, T5104, T5103 (FBT) |
| G Board C6024, C6032, D6020 |

4-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Mount a resistor (R9901 : 43 k , 1/4 W, METAL FILM) at CN5003.
3. Remove CN5002 and connect External Power Supply to CN5002 ① pin (+135 V) and ② pin (GND).
4. Turn on the set.

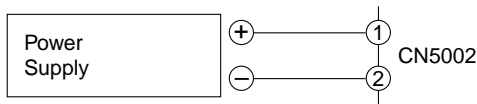


Fig. 4-1

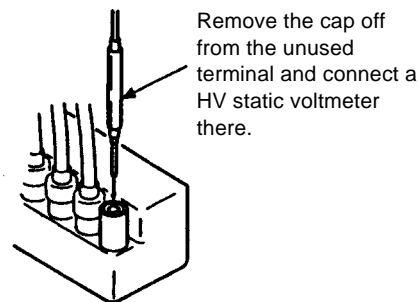


Fig. 4-2

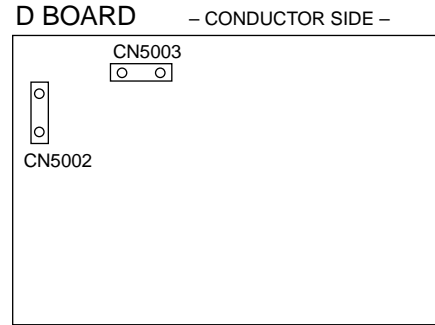


Fig. 4-3

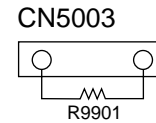


Fig. 4-4

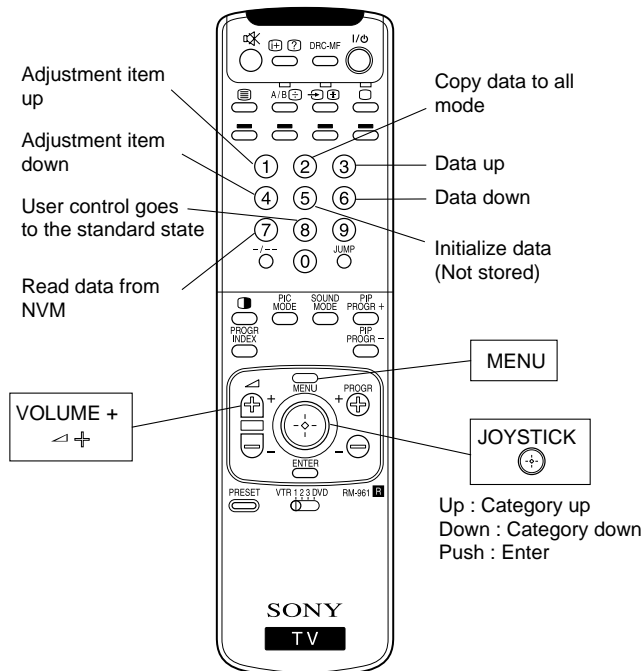
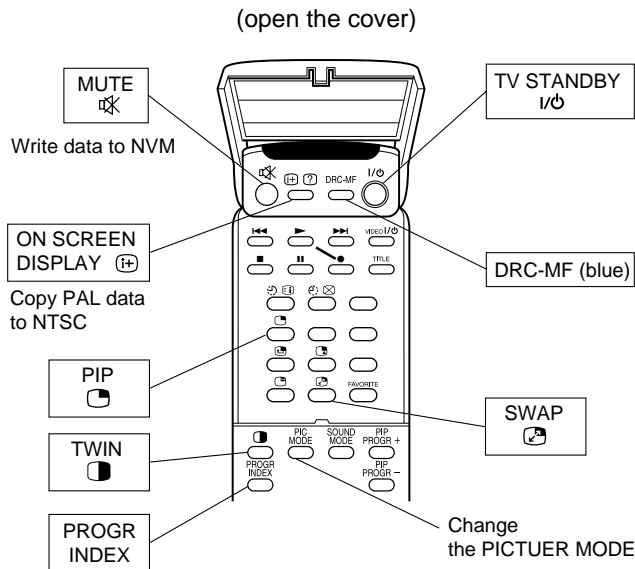
5. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
7. Read the HV static voltmeter of peak HV voltage.
Spec : 33.7 ~ 35.3 kV
8. If Hold-down voltage is less than 33.7 kV then replace R9901 of 43 k with that of 39 k , and check if the voltage is within the spec.
9. If hold-down voltage is over than 35.3 kV then replace R9901 of 43 k with that of 47 k , and check if the voltage is within the spec.

SECTION 5

ELECTRICAL ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can be performed with the supplied remote commander RM-961



RM-961

5-1-1. How to Select Each Mode

The adjustment requires the following modes:

| | 50 Hz (PAL) | 60 Hz (NTSC) | WIDE 60 Hz (NTSC) |
|---------|-------------|--------------|-------------------|
| DRC1250 | ○ | ○ | ○ |
| DRC100 | ○ | ○ | × |
| PIP | ○ | ○ | ○ |
| TWIN | ○ | ○ | × |
| INDEX | ○ | ○ | × |

1. Selection of Mode Between 50 Hz and 60 Hz

50 Hz : Enter the PAL signal.

60 Hz : Enter the NTSC signal.

WIDE 60 Hz : Enter the NTSC signal with video input

2. Selection of DRC Mode

- 1) Press “DRC-MF (blue)” button on the commander, repeatedly until displays the mode that you want to select on the screen.

Note : The DRC-MF mode is not selectable when using the “PROGRAM INDEX” or “FAVORITE CH” feature, or when the “GAME MODE”, “PIP”, or “TWIN” mode is turned “ON”.

3. Selection of WIDE mode

The WIDE mode is selected only when the DRC1250 of NTSC signal with video input mode is active.

- 1) Enter the NTSC signal with video input.
- 2) Press “DRC-MF (blue)” button on the commander to select “DRC1250”.
- 3) Press “MENU” button on the commander and move “⬆” up or down to enter the “FEATURE” ➔ “WIDE MODE”.
- 4) Move “⬆” up or down to select “ON” or “OFF”, and push “⬆ (ENTER)” button.
- 5) Press “MENU” button to return to normal screen.

4. Selection of PIP mode

- 1) Open the remote control cover, press “PIP” button on the commander.
- 2) Press “PIP” button again to return to normal screen.

5. Selection of TWIN mode

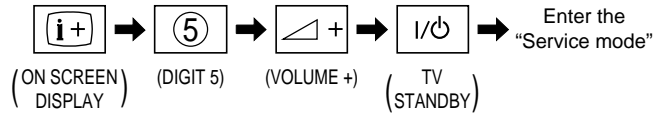
- 1) Press “TWIN” button on the commander.
- 2) Press “TWIN” button again to return to normal screen.

6. Selection of INDEX mode

- 1) Press “PROGR INDEX” button on the commander.
- 2) Press “PROGR INDEX” button again to return to normal screen.

5-1-2. How to Enter Service Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on the commander as follows, and enter service mode.

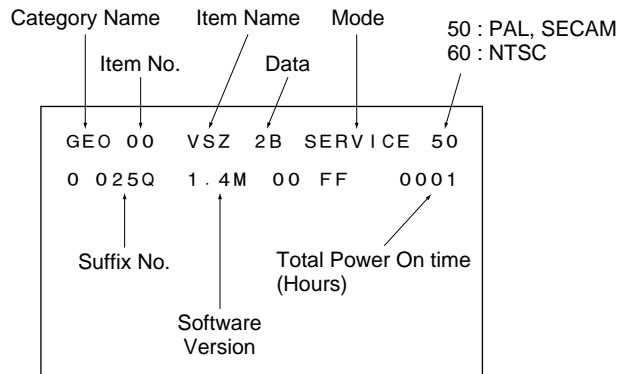


5-1-3. Method of Cancellation from Service Mode

1. Set the standby mode (Press "I/⏻ (TV STANDBY)" button on the commander), then press "I/⏻ (TV STANDBY)" button again, hereupon it becomes TV mode.

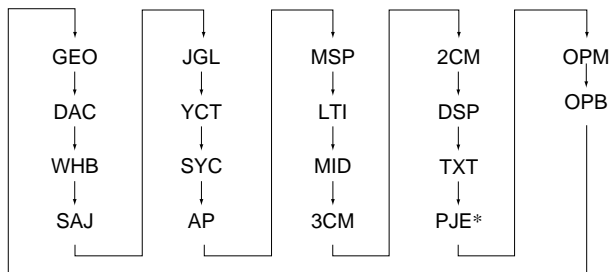
5-1-4. How to Adjustments

1. Set in the service mode, the following screen will appear.



2. Press "①" or "④" button on the commander to select the adjustment item.
3. Press "③" or "⑥" button on the commander to change the adjustment data.
4. Move "⬆" up or down to select the adjustment category.

When move "⬆" up (category up), service mode changes in the order as shown below.



* : When it moves from PJE to other categrys, repeat ① or ④ button and press it.

5-1-5. How to Write the Data

1. Set in the service mode.
2. Press "①" or "④" button on the commander, select the adjustment item, and press "③" or "⑥" button to change the data.
3. Press "⏻" (MUTE) button on the commander and it will indicate "WRITE" on the screen.
4. Press "⑩" button on the commander to write into memory. (The "WRITE" display will be changed to red color while executing, and back to "SERVICE".)

Commander Function (Except PJE mode)

| Button | Mode | Description |
|--------|---------|---|
| ⏻ + ⑩ | WRITE | Writes data to NVM. |
| ⑦ + ⑩ | READ | Reads data from NVM. |
| ⑧ + ⑩ | NORMAL | All user control goes to the standard. |
| ⑤ + ⑩ | INITIAL | Service data initialization. Not stored. (Be sure not to use usually) |
| ② + ⑩ | COPY | Copies and writes data of DRC1250 (50Hz) mode to all other modes. |
| ⑩ + ⑩ | WRT5060 | Copies data of 50 Hz (PAL) mode to 60 Hz (NTSC) mode. |

Note : Before changing to other modes, press "⏻ (MUTE)" + "⑩" buttons on the commander to write the data.

(Omission of this operation causes the data to be returned to the data before adjustment.)

: Confirm the adjustment mode before writing data for data values because to vary in each adjustment mode.

: The adjustment item that there are no relations in the adjustment is not to change data values because all items are written in each adjustment mode.

5-1-6. Memory Write Confirmation Method

1. After adjustment, pull put the plug from AC outlet, and then plug into AC outlet again.
2. Turn the power switch ON and set in service mode.
3. Call the adjustment items again to confirm adjustments were made.

V : WIDE (V-Compressed) mode

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | | | | | | | | | Device Name |
|----------|------|---|---|------------|---------------|-----|-------|------|---------|-------------|------------|-----|-------|-------|------|---------|----------|---------|----------|-----------|-------------|
| | No. | Name | | | 50Hz (PAL) | | | | | 60Hz (NTSC) | | | | | | | ECO Mode | | | | |
| | | | | | DRC 1250 | PIP | INDEX | TWIN | DRC 100 | DRC 1250 | DRC 1250 V | PIP | PIP V | INDEX | TWIN | DRC 100 | ECO ON | ECO OFF | ECO ON V | ECO OFF V | |
| GEO | 00 | VSZ | V SIZE | 00 ~ 3F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | | | | | CXA2100AQ | |
| | 01 | VPS | V POSITION | 00 ~ 3F | 23 | 23 | 1F | 1F | 23 | 1F | 1F | 1F | 1F | 1F | 1F | | | | | | |
| | 02 | VLN | V LINEARITY | 00 ~ 0F | 07 | 07 | | | 07 | 07 | 07 | 07 | 07 | | | 07 | | | | | |
| | 03 | SCO | S CORRECTION | 00 ~ 0F | 07 | 07 | | | 07 | 07 | 07 | 07 | 07 | | | 07 | | | | | |
| | 04 | HSZ | H SIZE | 00 ~ 3F | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | | | | | |
| | 05 | HPS | H POSITION | 00 ~ 3F | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | | | | | | |
| | 06 | DVH | H POSITION OFFSET FOR DVD | 00 ~ 0F | 09 | | | | | 07 | | | | | | | | | | | |
| | 07 | PAP | PIN AMP | 00 ~ 3F | 22 | 22 | | | 22 | 22 | 22 | 22 | 22 | | | 22 | | | | | |
| | 08 | UPN | UPPER CORNER PIN | 00 ~ 3F | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | | | |
| | 09 | LPN | LOWER CORNER PIN | 00 ~ 3F | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | | | |
| | 0A | TRZ | TRAPEZIUM | 00 ~ 0F | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | | | | | | |
| | 0B | AGL | AFC ANGLE | 00 ~ 0F | 07 | 07 | | | 07 | 07 | 07 | 07 | 07 | | | 07 | | | | | |
| | 0C | BOW | AFC BOW | 00 ~ 0F | 07 | 07 | | | 07 | 07 | 07 | 07 | 07 | | | 07 | | | | | |
| | 0D | LBL | LEFT H BLANKING | 00 ~ 3F | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | | | | | | |
| | 0E | RBL | RIGHT H BLANKING | 00 ~ 3F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | 1F | | | | | | |
| | 0F | MPN | MIDDLE PIN DISTORTION COMPENSATION | 00 ~ 03 | 00 | | | | | 00 | 00 | | | | | | | | | | |
| | 10 | UVL | UPPER V LINEARITY | 00 ~ 0F | 00 | | | | | 00 | | | | | | | | | | | |
| | 11 | LVL | LOWER V LINEARITY | 00 ~ 0F | 00 | | | | | 00 | | | | | | | | | | | |
| | 12 | HCP | HORIZONTAL HIGH VOLTAGE COMPENSATION | 00 ~ 03 | 01 | | | | | 01 | 01 | | | | | | | | | | |
| 13 | VCP | VERTICAL HIGH VOLTAGE COMPENSATION | 00 ~ 03 | 00 | | | | | 00 | 00 | | | | | | | | | | | |
| 14 | VAS | V ASPECT | 00 ~ 3F | 2F | 2F | 2F | 2F | 2F | 2F | 2C | 2F | 2C | 2F | 2F | 2F | | | | | | |
| 15 | VSC | V SCROLL | 00 ~ 3F | 1F | 1F | 1F | 1F | 1F | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | | | | |
| 16 | USC | UNDER-SCAN MODE ON/OFF | 00, 01 | 00 | | | | | 00 | 01 | | | | | | | | | | | |
| 17 | VBW | V BLANKING WIDTH CONTROL | 00 ~ 03 | 00 | 00 | | | 00 | 00 | 03 | 00 | 03 | | | 00 | | | | | | |
| 18 | AT1 | AKB REFERENCE TIMING | 00 ~ 03 | 00 | 00 | | | 00 | 00 | 00 | 00 | 00 | | | 00 | | | | | | |
| 19 | CPY | COPY THE GEO DATA TO ALL 50/60Hz NVM AREA | 00, 01 | | | | | | | | | | | | | | | | | | |
| DAC | 00 | HCT | H CENTER | 00 ~ FF | | | | | | | | | | | | | | | MB88141 | | |
| | 01 | HLN | H LINEARITY | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 02 | MDP | MIDDLE PIN | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 03 | CCP | LOWER CORNER PIN | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 04 | HTR | HORIZONTAL TRAPEZIUM | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 05 | DF | DF ON/OFF SWITCH | 00, 01 | | | | | | | | | | | | | | | | | |
| | 06 | DPH | DF PHASE | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 07 | QPH | QP PHASE | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 08 | QAC | QP AMPLITUDE | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 09 | QDC | QP DC LEVEL | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 0A | QDV | QP V MODULATION | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 0B | QAV | QP AMPLITUDE MODULATION | 00 ~ 3F | | | | | | | | | | | | | | | | | |
| | 0C | ABC | ABL D/A CONTROL | 00 ~ FF | | | | | | | | | | | | 00 | 00 | 7E | | 7E | |
| | 0D | CPY | COPY THE DAC DATA TO ALL 50/60Hz NVM AREA | 00, 01 | 00 | | | | | | | | | | | | | | | | |

| Category | Item | | Function | Data Range | Standerd Data | Device Name |
|----------|------|------|-----------------------------|------------|---------------|-------------|
| | No. | Name | | | Common | |
| WHB | 00 | CBO | DC OFFSET CANCELLER FOR CB1 | 00 ~ 0F | 0A | CXA2100AQ |
| | 01 | CRO | DC OFFSET CANCELLER FOR CR1 | 00 ~ 0F | 0A | |
| | 02 | SBR | SUB BRIGHTNESS CONTROL | 00 ~ 3F | 25 | |
| | 03 | RDR | R DRIVE | 00 ~ 3F | 29 | |
| | 04 | GDR | G DRIVE | 00 ~ 3F | 29 | |
| | 05 | BDR | B DRIVE | 00 ~ 3F | 29 | |
| | 06 | RCT | R CUTOFF | 00 ~ 3F | 29 | |
| | 07 | GCT | G CUTOFF | 00 ~ 3F | 1A | |
| | 08 | BCT | B CUTOFF | 00 ~ 3F | 29 | |
| | 09 | SBO | SUB BRIGHTNESS OFFSET | 00 ~ 3F | 1F | |
| | 0A | RDO | R DRIVE OFFSET | 00 ~ 3F | 1F | |
| | 0B | GDO | G DRIVE OFFSET | 00 ~ 3F | 1F | |
| | 0C | BDO | B DRIVE OFFSET | 00 ~ 3F | 1F | |
| | 0D | RCO | R CUTOFF OFFSET | 00 ~ 3F | 1F | |
| | 0E | GCO | G CUTOFF OFFSET | 00 ~ 3F | 1F | |
| | 0F | BCO | B CUTOFF OFFSET | 00 ~ 3F | 1F | |

V : WIDE (V-Compressed) mode

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | | | | | | | | | Device Name | |
|----------|------|---|---|------------|---------------|------------|-------|-----|-------------|-------|-----|------|-------|--------------|----------|---------|----------|----------|---------|----------|-------------|-----------|
| | No. | Name | | | Common | 50Hz (PAL) | | | 60Hz (NTSC) | | | Twin | Index | Picture Mode | | | | ECO Mode | | | | |
| | | | | | | TV | Video | DVD | TV | Video | DVD | | | Dynamic | Standard | Hi-Fine | Personal | ECO ON | ECO OFF | ECO ON V | | ECO OFF V |
| SAJ | 00 | PIC | PICTURE CONTROL | 00 ~ 3F | | | | | | | | | | 3F | 2C | 1C | | | | | | CXA2100AQ |
| | 01 | BRT | BRIGHTNESS CONTROL | 00 ~ 3F | | | | | | | | | | 21 | 1F | 1B | | | | | | |
| | 02 | COL | COLOR CONTROL | 00 ~ 3F | | | | | | | | | | 27 | 23 | 1F | | | | | | |
| | 03 | HUE | HUE CONTROL | 00 ~ 3F | | | | | | | | | | 1F | 1F | 1F | | | | | | |
| | 04 | SHP | SHARPNESS CONTROL | 00 ~ 3F | | | | | | | | | | 22 | 1F | 1D | | | | | | |
| | 05 | VML | VM LEVEL | 00 ~ 03 | | | | | | | | | | 03 | 03 | 02 | 03 | | | | | |
| | 06 | DYC | DYNAMIC COLOR ON/OFF | 00, 01 | | | | | | | | | | 01 | 01 | 00 | 01 | | | | | |
| | 07 | CTM | COLOR TEMPERATURE FOR DYNAMIC COLOR | 00, 01 | | | | | | | | | | 00 | 00 | 00 | 00 | | | | | |
| | 08 | CAX | COLOR MATRIX SPECIFICATION | 00 ~ 03 | | 02 | | | 00 | | | | | | | | | | | | | |
| | 09 | GMA | GAMMA CORRECTION | 00 ~ 03 | | | | | | | | | | 03 | 03 | 03 | 03 | | | | | |
| | 0A | DCT | DC TRANSMISSION CONTROL | 00 ~ 03 | | | | | | | | | | 01 | 00 | 00 | 00 | | | | | |
| | 0B | DPL | AUTO PEDESTAL LEVEL CONTROL | 00 ~ 03 | | | | | | | | | | 02 | 01 | 00 | 01 | | | | | |
| | 0C | ABM | ABL MODE CONTROL | 00 ~ 03 | | | | | | | | | | 01 | 00 | 00 | 00 | | | | | |
| | 0D | ABT | ABL CURRENT DETECTION Vth CONTROL | 00 ~ 03 | | | | | | | | | | | | | | 02 | 00 | 02 | 00 | |
| 0E | CLO | COLOR OFFSET | 00 ~ 0F | | 07 | 07 | | 0C | 0C | | | | | | | | | | | | | |
| 0F | CLW | COLOR STEP WIDTH TO THE CHANGE OF S/N | 00 ~ 07 | 01 | | | | | | | | | | | | | | | | | | |
| 10 | HUO | HUE OFFSET | 00 ~ 0F | | 08 | 08 | | 09 | 09 | | | | | | | | | | | | | |
| 11 | SHO | SHARPNESS OFFSET | 00 ~ 1F | | 0F | 0F | 0F | 0C | 0F | 0F | | | | | | | | | | | | |
| 12 | SHW | SHARPNESS STEP WIDTH TO THE CHANGE OF S/N | 00 ~ 07 | 01 | | | | | | | | | | | | | | | | | | |
| 13 | PIO | PICTURE OFFSET FOR TWIN/INDEX | 00 ~ 07 | | | | | | | | 07 | 07 | | | | | | | | | | |
| 14 | BRO | BRIGHTNESS OFFSET | 00 ~ 0F | | | | | | | | | | | | | | 07 | 07 | 07 | 07 | | |
| JGL | 00 | PON | RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF | 00, 01 | 01 | | | | | | | | | | | | | | | | CXA2100AQ | |
| | 01 | RGB | RGB OUTPUT SELECTION | 00 ~ 07 | 07 | | | | | | | | | | | | | | | | | |
| | 02 | AGG | AGING MODE SELECTION | 00 ~ 03 | 00 | | | | | | | | | | | | | | | | | |
| | 03 | DPS | Y/C DELAY LINE PASS MODE SWITCH | 00, 01 | 00 | | | | | | | | | | | | | | | | | |
| | 04 | BBT | RGB BOTTOM LIMITER CONTROL | 00 ~ 03 | 03 | | | | | | | | | | | | | | | | | |
| | 05 | LML | RGB AMPLITUDE LIMITER CONTROL | 00 ~ 03 | 00 | | | | | | | | | | | | | | | | | |
| | 06 | PAB | DC LEVEL FOR PEAK ABL | 00 ~ 0F | 0F | | | | | | | | | | | | | | | | | |
| | 07 | SCO | SUB PICTURE CONTROL | 00 ~ 0F | 07 | | | | | | | | | | | | | | | | | |
| | 08 | LV2 | RGB LEVEL FOR RGB2 | 00 ~ 0F | 06 | | | | | | | | | | | | | | | | | |
| | 09 | SFO | SHARPNESS CIRCUIT F0 | 00, 01 | | 01 | 01 | 01 | 01 | 01 | 01 | | | | | | | | | | | |
| | 0A | PRO | PRE/OVER-SHOOT RATIO CONTROL | 00 ~ 03 | | 00 | 03 | 03 | 03 | 03 | 03 | | | | | | | | | | | |
| | 0B | LTI | LUMINANCE TRANSIENT IMPROVEMENT | 00 ~ 03 | | | | | | | | | | 02 | 02 | 00 | 02 | | | | | |
| | 0C | CTI | CHROMINANCE TRANSIENT IMPROVEMENT | 00 ~ 03 | | | | | | | | | | 01 | 01 | 00 | 01 | | | | | |

| Category | Item | | Function | Data Range | Standerd Data | | | | | | | | | | Device Name | |
|----------|------|---|-------------------------------------|------------|---------------|---------|---------|---------|--------|------------|-------------|------------|-------------|------------|-------------|-------------|
| | No. | Name | | | Common | 2D Comb | 3D Comb | S-Input | others | TV | | Video | | DVD | | |
| | | | | | | | | | | 50Hz (PAL) | 60Hz (NTSC) | 50Hz (PAL) | 60Hz (NTSC) | 50Hz (PAL) | | 60Hz (NTSC) |
| YCT | 00 | TNT | TINT ADJUSTMENT FOR NTSC | 00 ~ 3F | | | | | | 24 | | 1F | | | | CXA2123Q |
| | 01 | PNG | PAL/NTSC GATE WIDTH | 00, 01 | 01 | | | | | | | | | | | |
| | 02 | PNI | PAL/NTSC SENSITIVITY SW | 00, 01 | 00 | | | | | | | | | | | |
| | 03 | SCL | SUB COLOR CONTROL | 00 ~ 0F | | | | | | 07 | 07 | 07 | 07 | | | |
| | 04 | SCT | SUB CONTRAST CONTROL | 00 ~ 0F | | | | | | 08 | 07 | 08 | 07 | | | |
| | 05 | SF0 | SHARPNESS CENTER FREQUENCY CHANGING | 00 ~ 03 | 02 | | | | | | | | | | | |
| | 06 | SEQ | SHARPNESS EQUALIZER CHARACTERISTIC | 00 ~ 03 | 03 | | | | | | | | | | | |
| | 07 | SHG | SHARPNESS GAIN CONTROL | 00 ~ 0F | | | | | | 05 | 06 | 05 | 06 | 05 | 05 | |
| | 08 | YOL | Y-OUTPUT LEVEL CONTROL | 00 ~ 3F | 1F | | | | | | | | | | | |
| | 09 | BSP | BLACK STRETCH START POINT CHANGING | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 0A | COL | CB/CR OUTPUT LEVEL CONTROL | 00 ~ 3F | 1A | | | | | | | | | | | |
| | 0B | DCR | DC RESTORATION RATIO ADJUSTMENT | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 0C | BF0 | BPF/TQF F0 ADJUSTMENT | 00 ~ 03 | 01 | | | | | | | | | | | |
| | 0D | BFQ | BPF/TQF Q ADJUSTMENT | 00 ~ 03 | 02 | | | | | | | | | | | |
| | 0E | FSW | BPF/TQF SWITCH | 00, 01 | 01 | | | | | | | | | | | |
| | 0F | SDT | SECAM DOUBLE TRAP SWITCH | 00, 01 | 01 | | | | | | | | | | | |
| | 10 | LPF | Y/CB/CR LPF SWITCH | 00, 01 | 01 | | | | | | | | | | | |
| | 11 | YDL | Y-DL TIME ADJUSTMENT | 00 ~ 0F | | 06 | 05 | 05 | 03 | | | | | | | |
| | 12 | CMT | CB/CR OUTPUT MUTE SWITCH | 00, 01 | 00 | | | | | | | | | | | |
| | 13 | BO1 | CB OFFSET ADJUSTMENT (MAIN ROUTE) | 00 ~ 0F | 07 | | | | | | | | | | | |
| | 14 | RO1 | CR OFFSET ADJUSTMENT | 00 ~ 0F | 07 | | | | | | | | | | | |
| | 15 | CDF | V COUNT DOWN FREQUENCY SWITCH | 00 ~ 07 | 00 | | | | | | | | | | | |
| | 16 | CDM | V COUNT DOWN JUDGE SWITCH | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 17 | AFC | AFC SENSITIVITY SWITCH | 00 ~ 03 | | | | | | | | 00 | | 00 | | |
| | 18 | MVM | MACROVISION MASK + AFC MASK | 00, 01 | 00 | | | | | | | | | | | |
| | 19 | SRV | SECAM R-Y BLACK ADJUSTMENT | 00 ~ 0F | 07 | | | | | | | | | | | |
| 1A | SBY | SECAM B-Y BLACK ADJUSTMENT | 00 ~ 0F | 01 | | | | | | | | | | | | |
| 1B | BEL | SECAM BELL/HPF SWITCHING | 00 ~ 03 | 02 | | | | | | | | | | | | |
| 1C | BLF | BELL F0 ADJUSTMENT | 00, 01 | 00 | | | | | | | | | | | | |
| 1D | SVI | SECAM V-ID SWITCH | 00, 01 | 00 | | | | | | | | | | | | |
| 1E | SGP | SECAM GATE POSITION ADJUSTMENT | 00 ~ 03 | 00 | | | | | | | | | | | | |
| 1F | SID | SECAM SENSITIVITY SWITCH | 00, 01 | 01 | | | | | | | | | | | | |
| 20 | SIH | SECAM INHIBITION SWITCH | 00, 01 | 00 | | | | | | | | | | | | |
| 21 | STP | Y BLACK LEVEL SETUP FOR PAL PLUS | 00, 01 | 00 | | | | | | | | | | | | |
| 22 | HVC | H-VCO TEMPERATURE CHARACTER CANCELLING | 00 ~ 03 | 02 | | | | | | | | | | | | |
| 23 | 3NR | 3D NR OPERATION ON/OFF | 00, 01 | 01 | | | | | | | | | | | | |
| 24 | BW6 | 3D NR FOR 60Hz NON-BURST SIGNAL ON/OFF | 00, 01 | 01 | | | | | | | | | | | | |
| 25 | WSH | SHARPNESS GAIN STEP FOR NOISE REDUCTION | 00 ~ 03 | 00 | | | | | | | | | | | | |
| 26 | WCO | CB/CR OUTPUT LEVEL STEP FOR NOISE REDUCTION | 00 ~ 03 | 00 | | | | | | | | | | | | |

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | | | Device Name |
|----------|------|------|--|------------|---------------|---------|----------|------|-----|------------|-------------|------------|-------------|-----|-------------|
| | No. | Name | | | Common | S-Input | Col Mode | | | TV | | Video | | DVD | |
| | | | | | | | SECAM | NTSC | PAL | 50Hz (PAL) | 60Hz (NTSC) | 50Hz (PAL) | 60Hz (NTSC) | | |
| SYC | 00 | TNT | TINT ADJUSTMENT FOR NTSC | 00 ~ 3F | | | | | | 21 | | 20 | | | CXA2123Q |
| | 01 | PNG | PAL/NTSC GATE WIDTH | 00, 01 | 01 | | | | | | | | | | |
| | 02 | PNI | PAL/NTSC SENSITIVITY SW | 00, 01 | 00 | | | | | | | | | | |
| | 03 | SCL | SUB COLOR CONTROL | 00 ~ 0F | | | | | | 06 | 06 | 07 | 07 | | |
| | 04 | SCT | SUB CONTRAST CONTROL | 00 ~ 0F | | | | | | 08 | 07 | 08 | 07 | | |
| | 05 | SF0 | SHARPNESS CENTER FREQUENCY CHANGING | 00 ~ 03 | 02 | | | | | | | | | | |
| | 06 | SEQ | SHARPNESS EQUALIZER CHARACTERISTIC | 00 ~ 03 | 03 | | | | | | | | | | |
| | 07 | SHG | SHARPNESS GAIN CONTROL | 00 ~ 0F | 07 | | | | | | | | | | |
| | 08 | YOL | Y-OUTPUT LEVEL CONTROL | 00 ~ 3F | 1F | | | | | | | | | | |
| | 09 | BSP | BLACK STRETCH START POINT CHANGING | 00 ~ 03 | 00 | | | | | | | | | | |
| | 0A | COL | CB/CR OUTPUT LEVEL CONTROL | 00 ~ 3F | 1A | | | | | | | | | | |
| | 0B | DCR | DC RESTORATION RATIO ADJUSTMENT | 00 ~ 03 | 00 | | | | | | | | | | |
| | 0C | BF0 | BPF/TQF F0 ADJUSTMENT | 00 ~ 03 | 01 | | | | | | | | | | |
| | 0D | BFQ | BPF/TQF Q ADJUSTMENT | 00 ~ 03 | 02 | | | | | | | | | | |
| | 0E | FSW | BPF/TQF SWITCH | 00, 01 | 01 | | | | | | | | | | |
| | 0F | SDT | SECAM DOUBLE TRAP SWITCH | 00, 01 | 01 | | | | | | | | | | |
| | 10 | LPF | Y/CB/CR LPF SWITCH | 00, 01 | 01 | | | | | | | | | | |
| | 11 | YDL | Y-DL TIME ADJUSTMENT | 00 ~ 0F | | 05 | 03 | 02 | 03 | | | | | | |
| | 12 | NCM | 1-H ADDITION SWITCH | 00, 01 | 01 | | | | | | | | | | |
| | 13 | CMT | CB/CR OUTPUT MUTE SWITCH | 00, 01 | 00 | | | | | | | | | | |
| | 14 | BO1 | CB OFFSET ADJUSTMENT (MAIN ROUTE) | 00 ~ 0F | 07 | | | | | | | | | | |
| | 15 | RO1 | CR OFFSET ADJUSTMENT | 00 ~ 0F | 07 | | | | | | | | | | |
| | 16 | CDF | V COUNT DOWN FREQUENCY SWITCH | 00 ~ 07 | 00 | | | | | | | | | | |
| | 17 | CDM | V COUNT DOWN JUDGE SWITCH | 00 ~ 03 | 00 | | | | | | | 00 | | 00 | |
| | 18 | AFC | AFC SENSITIVITY SWITCH | 00 ~ 03 | | | | | | | | | | | |
| | 19 | MVM | MACROVISION MASK + AFC MASK | 00, 01 | 00 | | | | | | | | | | |
| | 1A | SRY | SECAM R-Y BLACK ADJUSTMENT | 00 ~ 0F | 07 | | | | | | | | | | |
| | 1B | SBY | SECAM B-Y BLACK ADJUSTMENT | 00 ~ 0F | 01 | | | | | | | | | | |
| | 1C | BEL | SECAM BELL/HPF SWITCHING | 00 ~ 03 | 02 | | | | | | | | | | |
| | 1D | BLF | BELL F0 ADJUSTMENT | 00, 01 | 00 | | | | | | | | | | |
| | 1E | SVI | SECAM V-ID SWITCH | 00, 01 | 00 | | | | | | | | | | |
| | 1F | SGP | SECAM GATE POSITION ADJUSTMENT | 00 ~ 03 | 00 | | | | | | | | | | |
| | 20 | SID | SECAM SENSITIVITY SWITCH | 00, 01 | 01 | | | | | | | | | | |
| | 21 | SIH | SECAM INHIBITION SWITCH | 00, 01 | 00 | | | | | | | | | | |
| | 22 | STP | Y BLACK LEVEL SETUP FOR PAL PLUS | 00, 01 | 00 | | | | | | | | | | |
| | 23 | HVC | H-VCO TEMPERATURE CHARACTER CANCELLING | 00 ~ 03 | 02 | | | | | | | | | | |

| Category | Item | | Function | Data Range | Standerd Data | | | | | | | | | Device Name |
|----------|------|------|-----------------|------------|---------------|---------|---------|---------|---------|---------|---------|-------|------|-------------|
| | No. | Name | | | Common | Sur VDD | Sur VDP | Sur TRS | Sur SIM | Sur OFF | Dynamic | Drama | Soft | |
| 43" | 00 | BAS | BASS CONTROL | 00 ~ 0F | | | | | | | 0B | 0A | 07 | TDA7315 |
| | 01 | TRE | TREBLE CONTROL | 00 ~ 0F | | | | | | | 0A | 09 | 07 | |
| | 02 | LDN | LOUDNESS ON/OFF | 00, 01 | 01 | | | | | | | | | |
| 53" | 00 | BAS | BASS CONTROL | 00 ~ 0F | | | | | | | 09 | 07 | 05 | |
| | 01 | TRE | TREBLE CONTROL | 00 ~ 0F | | | | | | | 0B | 09 | 06 | |
| | 02 | LDN | LOUDNESS ON/OFF | 00, 01 | 01 | | | | | | | | | |

Sur : Surround mode

VDD : Virtual Dolby Digital

VDP : Virtual Dolby Prologic

TRS : Tru Surround

SIM : Simulated

| Category | Item | | Function | Data Range | Standerd Data | Device Name |
|----------|------|------|----------------------------------|------------|---------------|-------------|
| | No. | Name | | | Common | |
| MSP | 00 | WST | W/G STEREO THRESHOLD | 00 ~ FF | 15 | MSP3415D |
| | 01 | WBT | W/G BILINGUAL THRESHOLD | 00 ~ FF | EA | |
| | 02 | WLL | W/G MONAURAL THRESHOLD | 00 ~ FF | 05 | |
| | 03 | WAC | W/G AGREEMENT COUNT | 00 ~ 0F | 01 | |
| | 04 | WDL | W/G SEARCH DELAY | 00 ~ FF | 30 | |
| | 05 | NDL | NICAM SEARCH DELAY | 00 ~ FF | 20 | |
| | 06 | SDL | STEREO STATUS READ DELAY | 00 ~ FF | 10 | |
| | 07 | AGC | AGC SWITCH AUTO/CONSTANT | 00, 01 | 01 | |
| | 08 | REL | AGC GAIN AT CONSTANT MODE | 00 ~ 3F | 28 | |
| | 09 | CRM | CARRIER MUTING ON/OFF | 00, 01 | 00 | |
| | 0A | ACO | AUDIO CLOCK OUT ON/OFF | 00, 01 | 01 | |
| | 0B | FP | FM PRESCALE FOR NON-M SYSTEM | 00 ~ 7F | 1B | |
| | 0C | FPM | FM PRESCALE FOR M SYSTEM | 00 ~ 7F | 32 | |
| | 0D | FH | FM PRESCALE FOR HDEV | 00 ~ 7F | 2D | |
| | 0E | FHM | FM PRESCALE FOR HDEV AND M | 00 ~ 7F | 65 | |
| | 0F | WGP | W/G PRESCALE | 00 ~ 7F | 2A | |
| | 10 | NIP | NICAM PRESCALE | 00 ~ 7F | 6D | |
| | 11 | ERR | AUTO FM SWITCH THRESHOLD | 00 ~ FF | 50 | |
| | 12 | VOL | LOUD SPEAKER GAIN 0700h to 07FFh | 00 ~ FF | 6D | |

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | Device Name |
|----------|------|---|--|------------|---------------|------|----|-------|--------------|----------|---------|----------|-------------|
| | No. | Name | | | Common | Twin | TV | Video | Picture Mode | | | | |
| | | | | | | | | | Dynamic | Standard | Hi-Fine | Personal | |
| LTI | 00 | LDH | HISTOGRAM SEGMENT SELECTION | 00, 01 | 01 | | | | | | | | TDA9178 |
| | 01 | CFS | CONTOUR FILTER SELECTION | 00, 01 | 01 | | | | | | | | |
| | 02 | WLB | LETTERBOX WINDOW SWITCH | 00, 01 | 00 | | | | | | | | |
| | 03 | VDC | VIDEO DEPENDENT CORING | 00, 01 | | | | 01 | 01 | 01 | 01 | | |
| | 04 | DEM | DEMONSTRATION MODE | 00, 01 | 00 | | | | | | | | |
| | 05 | CDP | LUMINANCE DELAY | 00 ~ 07 | 04 | | | | | | | | |
| | 06 | OSP | OVERRULE SMART PEAKING | 00, 01 | 00 | | | | | | | | |
| | 07 | WPO | WHITE POINT STRETCH OFF | 00, 01 | 00 | | | | | | | | |
| | 08 | DSK | SKIN TONE SWITCH | 00, 01 | | | | 00 | 00 | 00 | 00 | | |
| | 09 | ASK | SKIN TONE ANGLE SELECTION | 00, 01 | 00 | | | | | | | | |
| | 0A | WSK | SKIN TONE WIDTH SELECTION | 00, 01 | 00 | | | | | | | | |
| | 0B | SSK | SKIN TONE SIZE SELECTION | 00, 01 | 00 | | | | | | | | |
| | 0C | DGR | GREEN ENHANCEMENT SWITCH | 00, 01 | | 00 | | * | 01 | 00 | 01 | | |
| | 0D | DGT | THRESHOLD OF GREEN ENHANCEMENT SWITCH | 00 ~ 07 | 07 | | | | | | | | |
| | 0E | GGR | GREEN ENHANCEMENT GAIN | 00, 01 | 00 | | | | | | | | |
| | 0F | WGR | GREEN ENHANCEMENT WIDTH | 00, 01 | 00 | | | | | | | | |
| | 10 | SGR | GREEN ENHANCEMENT SIZE | 00, 01 | 00 | | | | | | | | |
| | 11 | DBL | BLUE STRETCH SWITCH | 00, 01 | 00 | | | | | | | | |
| | 12 | GBL | BLUE STRETCH GAIN SELECTION | 00, 01 | 00 | | | | | | | | |
| | 13 | SBL | BLUE STRETCH SIZE SELECTION | 00, 01 | 00 | | | | | | | | |
| | 14 | CDS | COLOR DEPENDENT SHARPNESS | 00, 01 | | | | 01 | 01 | 01 | 01 | | |
| | 15 | CST | THRESHOLD OF COLOR DEPENDENT SHARPNESS | 00 ~ 07 | 07 | | | | | | | | |
| | 16 | CTI | COLOR TRANSIENT IMPROVEMENT | 00, 01 | | | | 00 | 00 | 00 | 00 | | |
| | 17 | BON | BLACK OFFSET COMPENSATION | 00, 01 | | | | 00 | 00 | 00 | 00 | | |
| | 18 | BTD | ADAPTIVE BLACK STRETCH | 00 ~ 3F | | | | 00 | 00 | 00 | 00 | | |
| | 19 | NLD | NON-LINEARITY AMPLIFIER | 00 ~ 3F | | 00 | | 13 | 13 | 05 | 13 | | |
| | 1A | NLW | STEP WIDTH OF NON-LINEARITY AMPLIFIER | 00 ~ 07 | 07 | | | | | | | | |
| | 1B | VGd | VARIABLE GAMMA | 00 ~ 3F | | 1F | | 15 | 15 | 1A | 15 | | |
| | 1C | VGW | STEP WIDTH OF VARIABLE GAMMA | 00 ~ 07 | 00 | | | | | | | | |
| | 1D | PKD | PEAKING AMPLITUDE | 00 ~ 3F | | | | 32 | 32 | 1D | 32 | | |
| 1E | PKW | STEP WIDTH OF PEAKING AMPLITUDE | 00 ~ 0F | 08 | | | | | | | | | |
| 1F | SPD | STEEPNESS CORRECTION | 00 ~ 3F | | | | 00 | 00 | 00 | 00 | | | |
| 20 | CRD | CORING LEVEL | 00 ~ 3F | | | | 14 | 0D | 05 | 14 | | | |
| 21 | CRW | STEP WIDTH OF CORING LEVEL | 00 ~ 0F | 09 | | | | | | | | | |
| 22 | CRO | CORING LEVEL OFFSET FOR VIDEO MODE | 00 ~ 0F | 05 | | | | | | | | | |
| 23 | LWD | LINE WIDTH CORRECTION | 00 ~ 3F | 1F | | | | | | | | | |
| 24 | SNM | S/N MODE UNDER UNRELIABLE S/N CONDITION | 00 ~ 07 | 00 | | | | | | | | | |
| 25 | SNC | S/N RATIO AVERAGE COUNTER | 00 ~ 0F | | | 03 | 03 | | | | | | |
| 26 | FMC | FEATURE MODE MATCHING COUNTER | 00 ~ 0F | 02 | | | | | | | | | |

* Mark Data Value GE/HK/ME model: 01
AUS model: 00

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | | | Device Name |
|----------|------|------|--|------------|---------------|-----|------|-------|--------|--------------|-----|------|-------|--------|-------------|
| | No. | Name | | | 50 Hz (PAL) | | | | | 60 Hz (NTSC) | | | | | |
| | | | | | DRC1250 | PIP | TWIN | INDEX | DRC100 | DRC1250 | PIP | TWIN | INDEX | DRC100 | |
| MID | 00 | HPH | HORIZONTAL ACTIVE DISPLAY AREA PHASE | 00 ~ FF | 3E | 3E | 7B | 78 | 3E | 49 | 49 | 6F | 6C | 49 | MB94918 |
| | 01 | VPH | VERTICAL ACTIVE DISPLAY AREA PHASE | 00 ~ 3F | 15 | 15 | 20 | 1A | 0C | 25 | 25 | 2E | 2D | 13 | |
| | 02 | HSZ | HORIZONTAL ACTIVE DISPLAY AREA SIZE | 00 ~ FF | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | |
| | 03 | VSZ | VERTICAL ACTIVE DISPLAY AREA SIZE | 00 ~ FF | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | 7F | |
| | 04 | HPW | DISPLAY H-SYNC PULSE WIDTH | 00 ~ 3F | 3F | 3F | 3F | 3F | 3F | 3F | 3F | 3F | 3F | 3F | |
| | 05 | VPW | DISPLAY V-SYNC PULSE WIDTH | 00 ~ 07 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | |
| | 06 | YDL | DISPLAY OUTPUT Y/C DELAY CORRECTION | 00 ~ 3F | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 07 | MHP | MAIN PICTURE HORIZONTAL POSITION (SINGLE & PIP) | 00 ~ FF | 7F | 7F | | | 7F | 7F | 7F | | | 7F | |
| | 08 | MVP | MAIN PICTURE VERTICAL POSITION (SINGLE & PIP) | 00 ~ FF | 7F | 7F | | | 7F | 7F | 7F | | | 7F | |
| | 09 | MHS | MAIN PICTURE HORIZONTAL SIZE (SINGLE & PIP) | 00 ~ FF | 7F | 7F | | | 7F | 7F | 7F | | | 7F | |
| | 0A | MVS | MAIN PICTURE VERTICAL SIZE (SINGLE & PIP) | 00 ~ FF | 7F | 7F | | | 7F | 7F | 7F | | | 7F | |
| | 0B | PHP | PIP SUB PICTURE HORIZONTAL POSITION | 00 ~ FF | | 6B | | | | | 53 | | | | |
| | 0C | PVP | PIP SUB PICTURE VERTICAL POSITION | 00 ~ FF | | 5E | | | | | 57 | | | | |
| | 0D | PHS | PIP SUB PICTURE HORIZONTAL SIZE | 00 ~ FF | | 7F | | | | | 7F | | | | |
| | 0E | PVS | PIP SUB PICTURE VERTICAL SIZE | 00 ~ FF | | 7F | | | | | 7F | | | | |
| | 0F | PHO | PIP SUB PICTURE HORIZONTAL POSITION OFFSET | 00 ~ FF | | 76 | | | | | 68 | | | | |
| | 10 | PVO | PIP SUB PICTURE VERTICAL POSITION OFFSET | 00 ~ FF | | 6E | | | | | 6B | | | | |
| | 11 | TMP | TWIN MAIN PICTURE HORIZONTAL POSITION | 00 ~ 03 | | | 01 | | | | | | | | |
| | 12 | TSP | TWIN SUB PICTURE HORIZONTAL POSITION | 00 ~ FF | | | 00 | | | | | | | | |
| | 13 | TVP | TWIN MAIN & SUB PICTURE VERTICAL POSITION | 00 ~ FF | | | | | | | | | | | |
| | 14 | THS | TWIN MAIN & SUB PICTURE HORIZONTAL SIZE | 00 ~ FF | | | | | | | | | | | |
| | 15 | TVS | TWIN MAIN & SUB PICTURE VERTICAL SIZE | 00 ~ FF | | | | | | | | | | | |
| | 16 | THO | TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET | 00 ~ FF | | | | | | | | | | | |
| | 17 | TVO | TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET | 00 ~ FF | | | | | | | | | | | |
| | 18 | XHS | INDEX SUB PICTURE HORIZONTAL SIZE | 00 ~ FF | | | | | | | | | | | |
| | 19 | XVS | INDEX SUB PICTURE VERTICAL SIZE | 00 ~ FF | | | | | | | | | | | |
| | 1A | XHG | INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES | 00 ~ FF | | | | | | | | | | | |
| | 1B | XVG | INDEX VERTICAL GAP WIDTH BETWEEN PICTURES | 00 ~ FF | | | | | | | | | | | |
| | 1C | XHP | INDEX 1st SUB PICTURE HORIZONTAL POSITION | 00 ~ FF | | | | | | | | | | | |
| | 1D | XVP | INDEX 1st SUB PICTURE VERTICAL POSITION | 00 ~ FF | | | | | | | | | | | |
| | 1E | DHP | DRC HORIZONTAL ACTIVE AREA POSITION | 00 ~ FF | | 7F | | 7F | 7F | | 7F | | 7F | 7F | |
| | 1F | DHS | DRC HORIZONTAL ACTIVE AREA PIXEL SIZE | 00 ~ FF | | 7F | | 7F | 7F | | 7F | | 7F | 7F | |
| | 20 | DVP | DRC VERTICAL ACTIVE ARE LINE POSITION | 00 ~ 3F | | 1A | | 3F | 1A | | 1A | | 39 | 1A | |
| | 21 | DVS | DRC VERTICAL ACTIVE AREA LINE SIZE | 00 ~ FF | | 7F | | 7F | 7F | | 7F | | 7F | 7F | |
| | 22 | VHP | VDO HORIZONTAL ACTIVE AREA POSITION | 00 ~ FF | | | 7F | | | | | 7F | | | |
| | 23 | VHS | VDO HORIZONTAL ACTIVE AREA PIXEL SIZE | 00 ~ FF | | | 7F | | | | | 7F | | | |
| | 24 | VEP | VDO VERTICAL ACTIVE AREA EVEN POSITION | 00 ~ 3F | | | 1E | | | | | 1B | | | |
| | 25 | VVS | VDO VERTICAL ACTIVE AREA LINE SIZE | 00 ~ FF | | | 7F | | | | | 7F | | | |
| | 26 | VOP | VDO VERTICAL ACTIVE AREA ODD POSITION | 00 ~ 03 | | | 00 | | | | | 00 | | | |
| | 27 | CLT | VDO CLAMP PULSE OUTPUT TIMING | 00 ~ FF | | | 7F | | | | | 7F | | | |
| | 28 | CLW | VDO CLAMP PULSE WIDTH | 00 ~ 07 | | | 04 | | | | | 04 | | | |
| | 29 | VYD | VDO ANALOG INPUT Y/C DELAY CORRECTION | 00 ~ 3F | | | 00 | | | | | 00 | | | |
| | 2A | VCR | VDO CHROMA SIGNAL ORDER | 00, 01 | | | 01 | | | | | 01 | | | |
| | 2B | VDI | VDO DIGITAL ANGLE INPUT SELECTION | 00 ~ 03 | | | 01 | | | | | 01 | | | |

| Category | Item | | Function | Data Range | Standard Data | | | | | | | | | | Device Name | |
|----------|------|------|--|------------|---------------|----|-------|-----------|-----------|-----------|-----------|--------------|----------|---------|-------------|----------|
| | No. | Name | | | Common | TV | Video | NR Mode | | | | Picture Mode | | | | |
| | | | | | | | | NR Mode 0 | NR Mode 1 | NR Mode 2 | NR Mode 3 | Dynamic | Standard | Hi-Fine | | Parsonal |
| 3CM | 00 | FRZ | EXTERNAL MEMORY TEST BIT | 00, 01 | 00 | | | | | | | | | | μPD64082 | |
| | 01 | NRM | NOISE REDUCTION OPERATION MODE | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 02 | YCO | Y/C SINGLE OUTPUT SELECTION | 00 ~ 0F | 0D | | | | | | | | | | | |
| | 03 | SYC | SYSTEM CLOCK SELECTION | 00 ~ 03 | 01 | | | | | | | | | | | |
| | 04 | STD | STANDARD/NON-STANDARD OPERATION SELECTION | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 05 | MSS | INTER-FRAME/INTER-LINE OPERATION SELECTION | 00 ~ 03 | 00 | | | | | | | | | | | |
| | 06 | KIL | KILLER/NON-KILLER OPERATION SELECTION | 00 ~ 03 | 03 | | | | | | | | | | | |
| | 07 | EAD | EXTERNAL Y-ADC SWITCH | 00, 01 | 00 | | | | | | | | | | | |
| | 08 | ECS | EXTERNAL C-SYNC INPUT SELECTION | 00 ~ 03 | 01 | | | | | | | | | | | |
| | 09 | CPP | ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION | 00 ~ 03 | 02 | | | | | | | | | | | |
| | 0A | PWR | ADC INPUT WIDTH SWITCH | 00, 01 | 00 | | | | | | | | | | | |
| | 0B | HDP | HORIZONTAL PHASE ADJUSTMENT | 00 ~ 07 | 05 | | | | | | | | | | | |
| | 0C | CDL | C-SIGNAL DELAY ADJUSTMENT | 00 ~ 07 | 04 | | | | | | | | | | | |
| | 0D | DYC | DY DETECTION CORING LEVEL ADJUSTMENT | 00 ~ 0F | | | | 02 | 02 | 02 | 04 | | | | | |
| | 0E | DYG | DY DETECTION GAIN ADJUSTMENT | 00 ~ 0F | | | | 0A | 0A | 0A | 0A | | | | | |
| | 0F | DCC | DC DETECTION CORING LEVEL ADJUSTMENT | 00 ~ 0F | | | | 05 | 03 | 03 | 05 | | | | | |
| | 10 | DCG | DC DETECTION GAIN ADJUSTMENT | 00 ~ 0F | | | | 05 | 0A | 0A | 05 | | | | | |
| | 11 | YNR | YNR NON-LINEAR FILTER SETUP | 00 ~ 0F | 01 | | | | | | | | | | | |
| | 12 | CNR | CNR NON-LINEAR FILTER SETUP | 00 ~ 0F | 01 | | | | | | | | | | | |
| | 13 | WSC | NOISE DETECTION CORING ADJUSTMENT | 00 ~ 03 | 01 | | | | | | | | | | | |
| | 14 | VTH | HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD | 00 ~ 03 | | 01 | 01 | | | | | | | | | |
| | 15 | VTR | SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD | 00 ~ 03 | | 01 | 01 | | | | | | | | | |
| | 16 | LDR | SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD | 00 ~ 03 | | 02 | 01 | | | | | | | | | |
| | 17 | VAP | GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION | 00 ~ 07 | | | | | | | | 03 | 02 | 00 | | 02 |
| | 18 | VAI | VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION | 00 ~ 1F | | | | | | | | 0C | 06 | 00 | | 06 |
| | 19 | TST | TEST BIT | 00, 01 | 00 | | | | | | | | | | | |
| | 1A | YPF | CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF | 00 ~ 03 | | | | | | | | 03 | 03 | 03 | | 03 |
| | 1B | YPG | GAIN ADJUSTMENT FOR Y-PEAKING BPF | 00 ~ 0F | | | | | | | | 08 | 08 | 08 | | 08 |
| | 1C | VSE | LINE COMB FILTER SETUP | 00 ~ 0F | 0A | | | | | | | | | | | |
| | 1D | CCN | C-SIGNAL SPLIT FILTER SWITCH | 00, 01 | 00 | | | | | | | | | | | |
| | 1E | COS | C-SIGNAL DELAY SWITCH AT NOISE REDUCTION | 00, 01 | 00 | | | | | | | | | | | |
| | 1F | SDC | DC DETECTION SENSITIVITY SWITCH | 00, 01 | 00 | | | | | | | | | | | |

| Category | Item | | Function | Data Range | Standar Data | | | | | | | | | | Device Name | |
|----------|------|------|--|------------|--------------|----|-------|-----------|-----------|-----------|-----------|--------------|----------|---------|-------------|----------|
| | No. | Name | | | Common | TV | Video | NR Mode | | | | Picture Mode | | | | |
| | | | | | | | | NR Mode 0 | NR Mode 1 | NR Mode 2 | NR Mode 3 | Dynamic | Standard | Hi-Fine | | Parsonal |
| 3CM | 20 | SDY | DY DETECTION LOWER-LEVEL SENSITIVITY SWITCH | 00, 01 | 01 | | | | | | | | | | | μPD64082 |
| | 21 | D2G | D2 GAIN SELECTION | 00 ~ 07 | 04 | | | | | | | | | | | |
| | 22 | YHC | Y-SIGNAL HIGHER-LEVEL CORING SELECTION | 00 ~ 03 | | | | | | | 00 | 00 | 00 | 00 | | |
| | 23 | YHG | Y-SIGNAL HIGHER-LEVEL GAIN SWITCH | 00, 01 | | | | | | | 00 | 00 | 00 | 00 | | |
| | 24 | SHT | NON-STANDARD DETECTION & H/V COUNTER TEST BITS | 00 ~ 0F | 00 | | | | | | | | | | | |
| | 25 | CLK | CLOCK TEST BITS | 00 ~ 0F | 08 | | | | | | | | | | | |
| | 26 | PLL | PLL FILTER SETUP | 00 ~ 0F | 0D | | | | | | | | | | | |
| | 27 | KRF | KILLER DETECTION REFERENCE ADJUSTMENT | 00 ~ 0F | 03 | | | | | | | | | | | |
| | 28 | HSL | H-SYNC SLICE LEVEL ADJUSTMENT | 00 ~ 0F | 0C | | | | | | | | | | | |
| | 29 | VSL | V-SYNC SLICE LEVEL ADJUSTMENT | 00 ~ 0F | 08 | | | | | | | | | | | |
| | 2A | BPS | INTERNAL BURST GATE START POSITION ADJUSTMENT | 00 ~ 0F | 04 | | | | | | | | | | | |
| | 2B | BPW | INTERNAL BURST GATE WIDTH ADJUSTMENT | 00 ~ 0F | 0A | | | | | | | | | | | |
| | 2C | ADC | ADC CLOCK DELAY SELECTION | 00 ~ 03 | 03 | | | | | | | | | | | |
| | 2D | APD | ADC POWER-DOWN SWITCH | 00, 01 | 01 | | | | | | | | | | | |
| | 2E | NSD | NON-STANDARD DETECTION TEST BIT | 00, 01 | 01 | | | | | | | | | | | |
| | 2F | SPD | MEMORY POWER-DOWN SWITCH | 00 ~ 03 | 02 | | | | | | | | | | | |
| | 30 | CNT | CNR TEST BIT | 00, 01 | 00 | | | | | | | | | | | |
| 2CM | 00 | APA | 2D COMB APA CON ON/OFF | 00, 01 | | | | | | | | | | | CXA2069Q | |

| Category | Item | | Function | Data Range | Standerd Data | | | | | | | | | Device Name |
|----------|------|------|--|------------|---------------|---------|---------|---------|---------|---------|---------|-------|------|-------------|
| | No. | Name | | | Common | Sur VDD | Sur VDP | Sur TRS | Sur SIM | Sur OFF | Dynamic | Drama | Soft | |
| DSP | 00 | DUL | DIR UNLOCK DETECTION MODE | 00 ~ 03 | | | | | | | | | | |
| | 01 | DIM | DIGITAL INPUT MODE | 00 ~ 03 | | | | | | | | | | |
| | 02 | TFM | TruSurround FRONT MINUS | 00 ~ 7F | | | | | | | | | | |
| | 03 | TFP | TruSurround FRONT PLUS | 00 ~ 7F | | | | | | | | | | |
| | 04 | TCE | TruSurround CENTER | 00 ~ 7F | | | | | | | | | | |
| | 05 | TS1 | TruSurround SURROUND #1 | 00 ~ FF | | | | | | | | | | |
| | 06 | TS2 | TruSurround SURROUND #2 | 00 ~ 7F | | | | | | | | | | |
| | 07 | TSP | TruSurround SURROUND PLUS | 00 ~ 7F | | | | | | | | | | |
| | 08 | TSM | TruSurround SURROUND MINUS | 00 ~ 7F | | | | | | | | | | |
| | 09 | LFE | LOW FREQUENCY EFFECT | 00 ~ 7F | | | | | | | | | | |
| | 0A | BHL | BBE EFFECT 1 FOR BBE HIGH | 00 ~ 7F | | | | | | | | | | |
| | 0B | BHH | BBE EFFECT 2 FOR BBE HIGH | 00 ~ 7F | | | | | | | | | | |
| | 0C | BLL | BBE EFFECT 1 FOR BBE LOW | 00 ~ 7F | | | | | | | | | | |
| | 0D | BLH | BBE EFFECT 2 FOR BBE LOW | 00 ~ 7F | | | | | | | | | | |
| | 0E | DLR | DELAY SELECTION AT DSP RESET (100msec to 1500msec) | 00 ~ 07 | | | | | | | | | | |
| | 0F | BBE | BBE SELECTION | 00 ~ 03 | | | | | | | | | | |

Sur : Surround mode
VDD : Virtual Dolby Digital
VDP : Virtual Dolby Prologic
TRS : Tru Surround
SIM : Simulated

| Category | Item | | Function | Data Range | Standard Data | | | Device Name |
|----------|------|------|------------------------------|------------|---------------|-------------|--------------|-------------|
| | No. | Name | | | Common | 50 Hz (PAL) | 60 Hz (NTSC) | |
| TXT | 00 | TXH | TELETEXT HORIZONTAL POSITION | 00 ~ FF | 61 | | | SAA5261 |
| | 01 | TXV | TELETEXT VERTICAL POSITION | 00 ~ 3F | 0E | | | |

Category : PJE

■ : Fixed data

| Item Number | Adjustment Item | Data Range | Standard Data | | | | | Name/Description |
|-------------|-----------------|------------|---------------|--------------|----------------|---------------|-------------------|---------------------------------------|
| | | | DRC1250 (PAL) | DRC100 (PAL) | DRC1250 (NTSC) | DRC100 (NTSC) | DRC1250 VC (NTSC) | |
| 00 | FDIS | 00,01 | 00 | | | | | SELECT REGI DATA DISPLAY OF FINE ADJ |
| 01 | OSDH | 01 ~ 255 | 32 | 32 | 32 | 32 | 32 | PJED SERVICE MENU H POSITION |
| 02 | OSDV | 01 ~ 255 | 75 | 55 | 75 | 55 | 65 | PJED SERVICE MENU V POSITION |
| 03 | FVST | 00 ~ 255 | 54 | 33 | 54 | 33 | 54 | LINE NUMBER OF FINE ADJUST START |
| 04 | V1ST | 00 ~ 255 | 00 | 00 | 00 | 00 | 00 | V1 START DATA |
| 05 | V1CU | 00 ~ 255 | 25 | 50 | 29 | 58 | 29 | V1 COUNT UP DATA |
| 06 | COHP | 00 ~ 255 | 00 | 00 | 00 | 00 | 00 | H-PHASE OF ROUGH ADJ |
| 07 | FIHP | 00 ~ 255 | 203 | 203 | 203 | 203 | 203 | H-PHASE OF FINE ADJ |
| 08 | TPHP | 00 ~ 255 | 51 | 51 | 51 | 51 | 51 | H-PHASE OF TEST PATTERN |
| 09 | DFHP | 00 ~ 255 | 00 | 00 | 00 | 00 | 00 | H-PHASE OF DYNAMIC FOCUS |
| 10 | DFHG | -128 ~ 127 | -80 | -80 | -80 | -80 | -80 | H-2 GAIN OF DYNAMIC FOCUS |
| 11 | DFVG | -128 ~ 127 | -30 | -30 | -30 | -30 | -30 | V-2 GAIN OF DYNAMIC FOCUS |
| 12 | PWM1 | 00 ~ 255 | 00 | | | | | PWM1 |
| 13 | PWM2 | 00 ~ 255 | 29 | | | | | H-PHASE OF AUTO REGI TEST PATTERN |
| 14 | HBLD | 00 ~ 255 | 00 | | | | | H-PHASE OF RETURNED BLUE V LINE |
| 15 | HBLW | 00 ~ 63 | 00 | | | | | PULSE WIDTH OF RETURNED BLUE V LINE |
| 16 | BLKP | 00 ~ 255 | 44 | | | | | START BLANK PULSE |
| 17 | COGV | -128 ~ 127 | (*1) | | | | | GREEN V CENT OFFSET DATA OF AUTO REGI |
| 18 | CORV | -128 ~ 127 | (*1) | | | | | RED V CENT OFFSET DATA OF AUTO REGI |
| 19 | COBV | -128 ~ 127 | (*1) | | | | | BLUE V CENT OFFSET DATA OF AUTO REGI |
| 20 | COGH | -128 ~ 127 | (*1) | | | | | GREEN H CENT OFFSET DATA OF AUTO REGI |
| 21 | CORH | -128 ~ 127 | (*1) | | | | | RED H CENT OFFSET DATA OF AUTO REGI |
| 22 | COBH | -128 ~ 127 | (*1) | | | | | BULE H CENT OFFSET DATA OF AUTO REGI |
| 23 | SOGV | -128 ~ 127 | (*1) | | | | | GREEN V SKEW OFFSET DATA OF AUTO REGI |
| 24 | SORV | -128 ~ 127 | (*1) | | | | | RED V SKEW OFFSET DATA OF AUTO REGI |
| 25 | SOBV | -128 ~ 127 | (*1) | | | | | BLUE V SKEW OFFSET DATA OF AUTO REGI |
| 26 | SOGH | -128 ~ 127 | (*1) | | | | | GREEN H SKEW OFFSET DATA OF AUTO REGI |
| 27 | SORH | -128 ~ 127 | (*1) | | | | | RED H SKEW OFFSET DATA OF AUTO REGI |
| 28 | SOBH | -128 ~ 127 | (*1) | | | | | BLUE H SKEW OFFSET DATA OF AUTO REGI |
| 29 | ERR | FIXED | 00 | | | | | AUTO REGI ERROR CODE |
| 30 | ADTM | 00 ~ 255 | 144 | | | | | TIMING TO GET A/D DATA OF AUTO REGI |
| 31 *2 | VUP | 01 ~ 255 | 03 | 03 | 01 | 01 | 01 | AUTO REGI PATTERN UPPER V POSITION |
| 32 *2 | VMID | 01 ~ 255 | 135 | 130 | 115 | 110 | 115 | AUTO REGI PATTERN MIDDLE V POSITION |
| 33 *2 | VLOW | 01 ~ 255 | 260 | 255 | 225 | 212 | 225 | AUTO REGI PATTERN LOWER V POSITION |
| 34 *2 | HPR | 01 ~ 510 | 03 | 03 | 01 | 01 | 03 | AUTO REGI PATTERN H POSITION |
| 35 | SFTF | 00,01 | 00 | | | | | SHIFT ENABLE 00 : DISABLE 01 : ENABLE |
| 36 | SFTE | 00,01 | 00 | | | | | SHIFT FAST 00 : NORMAL 01 : QUICK |
| 37 | ACTL | 00 ~ 255 | 00 | | | | | LOWER BYTE OF COUNTER VALUE |
| 38 | ACTH | 00 ~ 255 | 00 | | | | | HIGHER BYTE OF COUNTER VALUE |
| GRN | CENT | -512 ~ 511 | 000/000 | | | | | GREEN H/V CENT (H CENT *3) |
| | SKEW | -512 ~ 511 | 000/000 | | | | | GREEN H/V SKEW (H SKEW *3) |
| | SIZE | -512 ~ 511 | 000/-200 | | | | | GREEN H/V SIZE (H/V SIZE *3) |
| | LIN | -512 ~ 511 | xxxx/xxxx | | | | | GREEN H/V LIN |
| | KEY | -512 ~ 511 | xxxx/xxxx | | | | | GREEN H/V KEY |
| | PIN | -512 ~ 511 | xxxx/270 | | | | | GREEN H/V PIN |
| BLU | CENT | -512 ~ 511 | 000/000 | | | | | BLUE H/V CENT |
| | SKEW | -512 ~ 511 | 000/000 | | | | | BLUE H/V SKEW |
| | SIZE | -512 ~ 511 | 000/-200 | | | | | BLUE H/V SIZE |
| | LIN | -512 ~ 511 | -150/xxxx | | | | | BLUE H/V LIN |
| | KEY | -512 ~ 511 | xxxx/-70 | | | | | BLUE H/V KEY |
| | PIN | -512 ~ 511 | xxxx/270 | | | | | BLUE H/V PIN |
| RED | CENT | -512 ~ 511 | 000/000 | | | | | RED H/V CENT |
| | SKEW | -512 ~ 511 | 000/000 | | | | | RED H/V SKEW |
| | SIZE | -512 ~ 511 | 000/-200 | | | | | RED H/V SIZE |
| | LIN | -512 ~ 511 | 150/xxxx | | | | | RED H/V LIN |
| | KEY | -512 ~ 511 | xxxx/-70 | | | | | RED H/V KEY |
| | PIN | -512 ~ 511 | xxxx/270 | | | | | RED H/V PIN |

VC : WIDE (V-Compressed) MODE

*3 : It can be adjust Green a little.

*1 : Set correctly by the automatic registration adjustment.

xxxx : Cannot change.

*2 : It can be adjust if automatic registration adjustment doesn't work.

| Category | Item | | Function | Data Range | Standard Data | | | Device Name |
|----------|------|------|---|------------|---------------|-------------|--------------|--------------------------|
| | No. | Name | | | Common | 50 Hz (PAL) | 60 Hz (NTSC) | |
| OPM | 00 | OSH | OSD H POSITION | 00 ~ 3F | 0F | | | CXP750096 OPTION-MISC |
| | 01 | FW1 | OSD ODD/EVEN FIELD WINDOW SETUP #1 | 00 ~ 3F | 00 | | | |
| | 02 | FW2 | OSD ODD/EVEN FIELD WINDOW SETUP #2 | 00 ~ 3F | 03 | | | |
| | 03 | OHO | OSD H POSITION OFFSET FOR INDEX | 00 ~ 0F | 07 | | | |
| | 04 | IL1 | INDEX SUB-SCREEN OSD 1st LINE VERTICAL POSITION | 00 ~ 3F | | 22 | 20 | |
| | 05 | IVO | INDEX SUB-SCREEN OSD VERTICAL OFFSET | 00 ~ 3F | | 2B | 20 | |
| | 06 | COM | COMB OPERATION SELECTION | 00 ~ 03 | 00 | | | |
| | 07 | APC | APC SWITCH | 00, 01 | 01 | | | |
| | 08 | TSY | TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM | 00 ~ 03 | 00 | | | |
| | 09 | MUT | NO SIGNAL MUTE | 00, 01 | 00 | | | |
| | 0A | AFM | AUTO FM SWITCH | 00, 01 | 01 | | | |
| | 0B | TVO | V-ANGLE CORRECTION TO PICTURE ROTATION | 00 ~ 07 | 03 | | | |
| | 0C | DBL | DISABLE BLUEBACK FUNCTION | 00, 01 | 01 | | | |
| | 0D | SSO | SPEED CH SEARCH SELECTION | 00 ~ 03 | 01 | | | |
| | 0E | TRP | MPEG/JPEG NOISE REDUCTION FOR EACH INPUT | 00 ~ 3F | 00 | | | |
| | 0F | SCH | CH SELECTION FOR SHIPPING CONDITION | 00 ~ 7F | | | | |
| | 10 | SCA | CABLE/AIR SELECTION FOR SHIPPING CONDITION | 00, 01 | | | | |
| | 11 | DMG | DISABLE MENU-OPERATION GUIDE | 00, 01 | 00 | | | |
| | 12 | VSN | ENABLE NOISE REDUCTION IN VIDEO MODE | 00, 01 | 00 | | | |
| OPB | 00 | OP1 | OPTIONAL BITS 1 (SEE THE SPECIFIED SHEET) | 00 ~ FF | E7 | | | OPTION-BITS |
| | 01 | OP2 | OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET) | 00 ~ FF | 13 | | | |

5-3. Picture Quality Adjustment

5-3-1. Preparation

1. Set in the service mode.
2. Set respective items as follows.

Adjustment Condition

DRC-MF : DRC1250
 PICTURE MODE : HI-FINE
 TWIN MODE : ON
 ECO MODE : OFF
 WIDE MODE : OFF

| Category | Item | Data |
|----------|--------|------|
| SAJ | 00 PIC | 3F |
| | 06 DYC | 00 |
| | 0E CLO | 06 |
| | 10 HUO | 07 |
| | 13 PIO | 00 |
| JGL | 04 BBT | 00 |
| | 05 LML | 03 |

3. Connect the oscilloscope probe to the following point on the E board.

Measurement Point

E Board CN4500 :

- ① pin R100 → VR
 ⑤ pin B100 → VB




Note : After the adjustment 5-3. Picture Quality Adjustment, these adjustment parameters must be recovered to the original condition.

Original Condition

DRC-MF : DRC1250
 PICTURE MODE : HI-FINE
 TWIN MODE : ON
 ECO MODE : OFF
 WIDE MODE : OFF

| Category | Item | Data | | | |
|----------|--------|-------|----------|-------|----------|
| | | 50 TV | 50 VIDEO | 60 TV | 60 VIDEO |
| SAJ | 00 PIC | 1F | | | |
| | 06 DYC | 00 | | | |
| | 0E CLO | 0C | 0C | 0C | 0C |
| | 10 HUO | 08 | 08 | 09 | 09 |
| | 13 PIO | 07 | | | |
| JGL | 04 BBT | 03 | | | |
| | 05 LML | 00 | | | |

5-3-2. NTSC Video Input

1. Enter the NTSC video color bar (White & color 75%) signal.
2. Enter the service mode, and set respective items as follows.
3. Measure waveform, and each item is adjusted to become the following figure.
4. Press “ (SWAP)” button on the commander, when the left screen and the right screen are changed.
5. After adjustment finished, press “ (MUTE)” + “ ” button to write the data to the NVM.

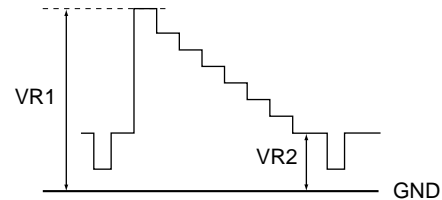
(i) SUB CONTRAST

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 00 PIC | 3F |
| | 02 COL | 00 |
| | 13 PIO | 00 |
| JGL | 01 RGB | 04 |

Adjusting Parameter :

LEFT screen : YCT 08 YOL
 RIGHT screen : SYC 08 YOL



$$VR1 - VR2 = 1.85 \pm 0.07 \text{ Vp-p}$$

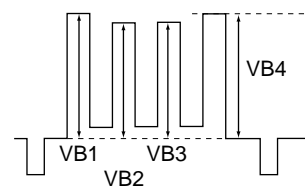
(ii) SUB HUE/SUB COL

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 02 COL | 1F |
| | 10 HUO | 07 |
| JGL | 01 RGB | 07 |

Adjusting Parameter :

LEFT screen : YCT 0A COL
 00 TNT
 RIGHT screen : SYC 0A COL
 00 TNT



$$VB1 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

5-3-3. NTSC RF Input

1. Enter the NTSC RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

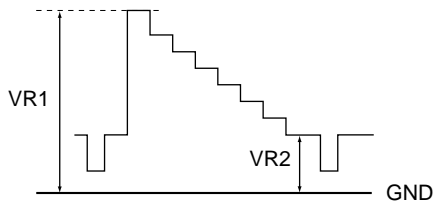
(i) SUB CONTRAST

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 00 PIC | 3F |
| | 02 COL | 00 |
| JGL | 01 RGB | 04 |

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



$$VR1 - VR2 = 1.85 \pm 0.07 \text{ Vp-p}$$

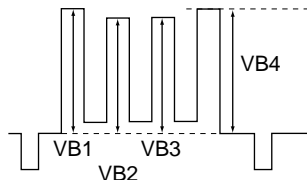
(ii) SUB HUE/SUB COL

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 02 COL | 1F |
| | 10 HUO | 07 |
| JGL | 01 RGB | 07 |

Adjusting Parameter :

LEFT screen : YCT 03 SCL
00 TNT
RIGHT screen : SYC 03 SCL
00 TNT



$$VB1 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

5-3-4. PAL Video Input

1. Enter the PAL video color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

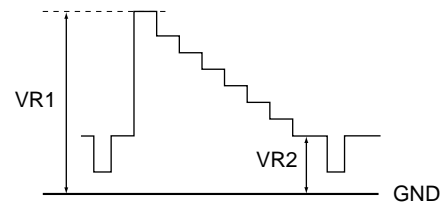
(i) SUB CONTRAST

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 00 PIC | 3F |
| | 02 COL | 00 |
| JGL | 01 RGB | 04 |

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 00 SCT



$$VR1 - VR2 = 1.85 \pm 0.07 \text{ Vp-p}$$

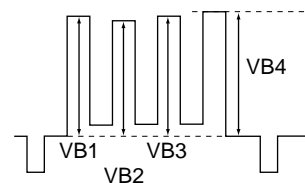
(ii) SUB HUE/SUB COL

Condition :

| Category | Item | Data |
|----------|--------|------|
| SAJ | 02 COL | 1 |
| | 01 RGB | 07 |

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



$$VB1 = VB3 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

5-3-5. PAL RF Input

1. Enter the PAL RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

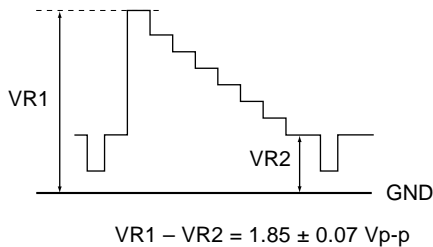
(i) SUB CONTRAST

Condition :

| Category | Item | | Data |
|----------|------|-----|------|
| SAJ | 00 | PIC | 3F |
| | 02 | COL | 00 |
| JGL | 01 | RGB | 04 |

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



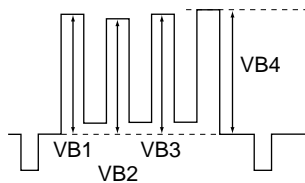
(ii) SUB HUE/SUB COL

Condition :

| Category | Item | | Data |
|----------|------|-----|------|
| SAJ | 02 | COL | 1F |
| JGL | 01 | RGB | 07 |

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



$$VB1 = VB3 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

5-4. Color Offset (53 inch model only)

5-4-1. 50 Hz (PAL) TV Mode

- 1) Enter the PAL RF signal.
- 2) Enter the service mode, and write the following data to the NVM.

| Category | Item | Data |
|----------|--------|---------|
| | | 53 inch |
| SAJ | 0E CLO | 0A |

5-4-2. 50 Hz (PAL) Video Mode

- 1) Enter the PAL video signal.
- 2) Enter the service mode, and write the following data to the NVM.

| Category | Item | Data |
|----------|--------|---------|
| | | 53 inch |
| SAJ | 0E CLO | 09 |

5-4-3. 60 Hz (NTSC) TV Mode

- 1) Enter the NTSC RF signal.
- 2) Enter the service mode, and write the following data to the NVM.

| Category | Item | Data |
|----------|--------|---------|
| | | 53 inch |
| SAJ | 0E CLO | 0A |

5-4-4. 60 Hz (NTSC) Video Mode

- 1) Enter the NTSC video signal.
- 2) Enter the service mode, and write the following data to the NVM.

| Category | Item | Data |
|----------|--------|---------|
| | | 53 inch |
| SAJ | 0E CLO | 0A |

5-5. REGISTRATION ADJUSTMENT

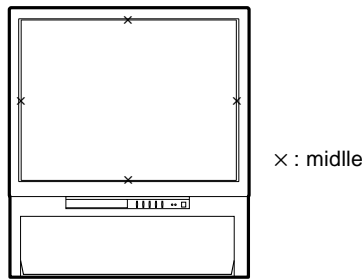
It is adjusted by REGISTRATION ADJUSTMENT respectively in the following 5 modes.

- DRC1250 (50 Hz) mode
- DRC100 (50 Hz) mode
- DRC1250 (60 Hz) mode
- DRC100 (60 Hz) mode
- DRC1250 (60 Hz) WIDE mode

5-5-1. Setup for Adjustment

1. Marking

- 1) At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.



2. Data Setting

- 1) Set in the DRC1250 (50 Hz) mode.
- 2) Set in the Service mode, and select the category "PJE".
- 3) Press "7" + "0" button on the commander to read the data from NVM. Then all the default data are restored.
- 4) Change it to other 4 modes, and set the data with the respectively same process.

Note : When you replaced printed circuit boards or devices or CRTs, and when correction is drastically necessary, press "5" + "0" (PJE INITIAL) button to initialize the data in the PJE mode.

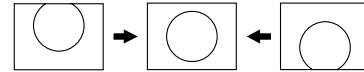
Press "MUTE" + "0" buttons on the commander to write the data.

: Be sure to set up the data in the PJE mode. All data initialize it when this operation is done by other categories.

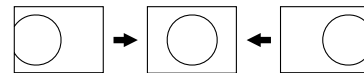
5-5-2. Method of Main Deflection Adjustment

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the signal.
3. Set in the Service mode, and select the category "GEO".
4. Adjust "01 VPS" and "05 HPS" so that the picture is displayed in the center of screen.

01 VPS

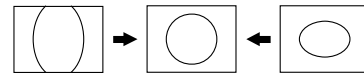


05 HPS

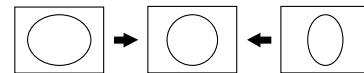


5. Adjust "00 VSZ" and "04 HSZ" so that the picture size is within the specification.

00 VSZ



04 HSZ

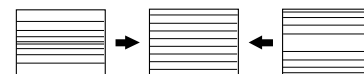


6. Adjust the following items so as to attain the optimum picture.

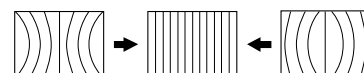
02 VLN



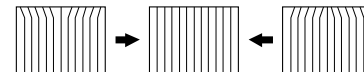
03 SCO



07 PAP



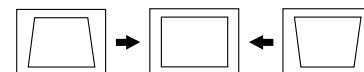
08 UPN



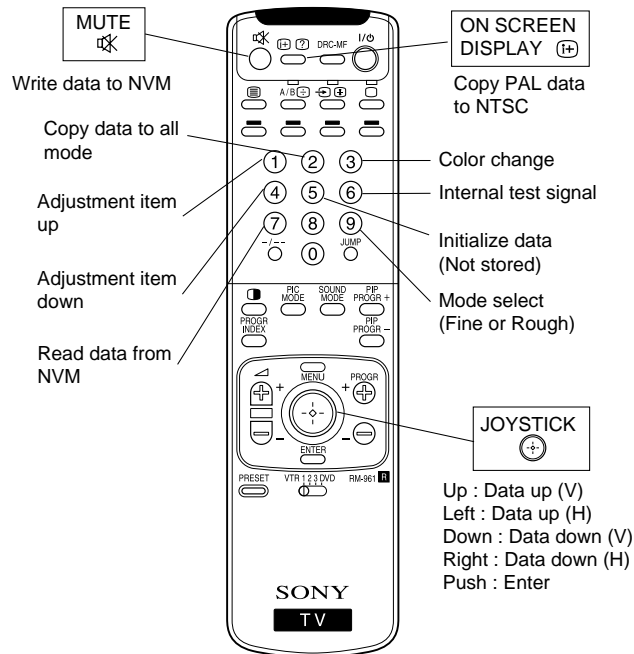
09 LPN



0A TRZ



5-5-3. Operation Method for Projector Engine (PJE) Mode



RM-961

1. Functions of Keys on Commander

- **①** : Changes adjustment item. (item No. moves up)
: Marker moves clockwise from center to outside. (in fine adjustment mode)
- **④** : Changes adjustment item. (item No. moves down)
: Marker moves counterclockwise from outside to center. (in fine adjustment mode)
- **⬆** : Changes data value. (up, down, or to the left or right)
(move) : Marker moves up, down, or to the left or right. (in fine adjustment mode)
- **③** : Changes adjustment color. (except item No. 00~38) GRN → BLU → RED
- **⑥** : Displays or changes internal test signals.
: crosshatch + external signal → dot + external signal → crosshatch only → dot only → off
- **⑨** : Switches adjustment mode.
rough adjustment mode → fine adjustment mode
- **⬆** : Switches marker moving method. (push) (in fine adjustment mode)

Commander Function (PJE mode)

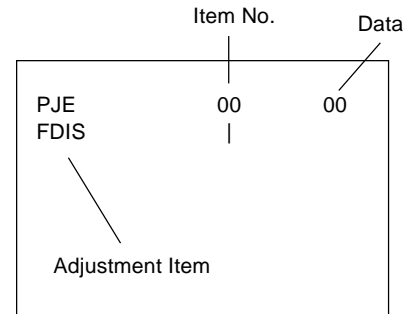
| Button | Mode | Description |
|---------------------|--------------|---|
| ⬆ + ① | WRITE | Writes data to NVM. |
| ⑦ + ① | READ | Reads data from NVM. |
| ⑤ + ① | *PJE INITIAL | Service data initialization. Not stored. (Be sure not to use usually) |
| ② + ① | *PJE COPY | Copies and writes data of DRC1250 (50Hz) mode to all other modes. |
| ⬆ + ① | *PJE WRT5060 | Copies data of 50 Hz (PAL) mode to 60 Hz (NTSC) mode. |

* : only data in the PJE mode.

joystick key → **①** and **④** buttons

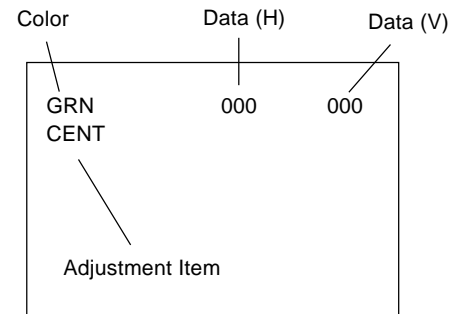
2. Operation Method for Rough Adjustment

- 1) Set in the Service mode, and select the category “PJE”.
- 2) Press “**①**” or “**④**” button on the commander to select the item, and move “**⬆**” up, down, or to the left or right to



change the data.

- 3) Select item “GRN CENT”. When BLU or RED is displayed, press “**③**” button on the commander to change the adjustment color in the order of GRN → BLU → RED.
- 4) In the GRN, BLU, or RED mode, move “**⬆**” up or down to change the data in vertical direction, or move “**⬆**” to the



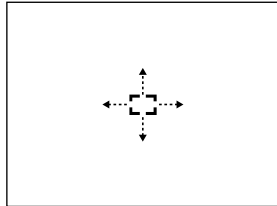
left or right to change the data in horizontal direction.

- 5) When it moves from PJE to other categories, repeat “**①**” or “**④**” button and press it.

3. Operation Method for Fine Adjustment (in GRN, BLU, or RED Mode)

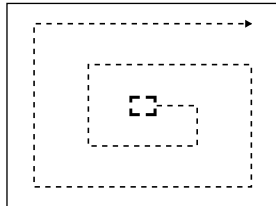
- 1) Set in the Service mode, and select the category "PJE".
- 2) Select item "FDIS" so that the data at each position can be displayed in the fine adjustment mode, and set the data to "01".
- 3) Press "⑨" button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
- 4) Push "⊕" (ENTER) button, and the marker color will be switched between green (GRN mode) and white alternately.
- 5) Use "①" or "④" button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

- When marker color is white.
(in this case, fine adjustment is disabled)



Operating the joystick can move the marker up, down, or to the left or right freely.

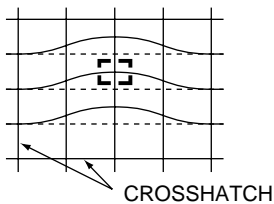
- When marker color is green. (GRN mode)



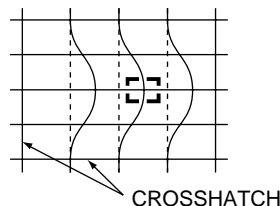
- ① : moves the marker clockwise from center to outside.
- ④ : moves the marker counterclockwise from outside to center.

- Fine adjustment can be made on the basis of marker position using joystick key.

Movement when joystick key is moved up.



Movement when joystick key is moved to the right.



- 6) Press "⑨" button on the commander to return to the rough adjustment mode.

5-5-4. Method of Projector Engine Adjustment (Sub Deflection Adjustment)

Adjustment ○ : Yes – : No

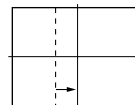
| Adjustment Item | Adjustment Type | | |
|-----------------|-----------------|-------|-------|
| | GRN | RED | BLU |
| | H / V | H / V | H / V |
| CENT | ○ / ○ | ○ / ○ | ○ / ○ |
| SKEW | ○ / ○ | ○ / ○ | ○ / ○ |
| SIZE | ○ / ○ | ○ / ○ | ○ / ○ |
| LIN | – / – | ○ / – | ○ / – |
| KEY | – / – | – / ○ | – / ○ |
| PIN | – / ○ | – / ○ | – / ○ |

1. Green Adjustment

- 1) Place the caps on the red and blue lenses so that only the green color is displayed.
- 2) Enter the signal.
- 3) Set in the Service mode, and select the category "PJE".
- 4) Press "⑥" button on the commander to display internal test signal (crosshatch).
- 5) Select "GRN CENT", and adjust so that the picture coincide in the center of screen.

- GRN CENT (horizontally/vertically)

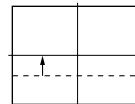
Move the joystick to the right.



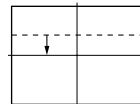
Move the joystick to the left.



Move the joystick up.



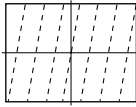
Move the joystick down.



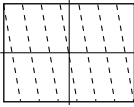
- 6) Select “GRN SKEW”, and correct the tilt of horizontal lines and vertical lines.

• GRN SKEW (horizontally/vertically)

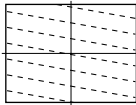
Move the joystick to the right.



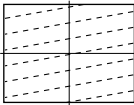
Move the joystick to the left.



Move the joystick up.



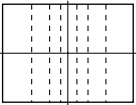
Move the joystick down.



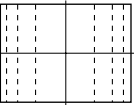
- 7) Select “GRN SIZE”, and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

• GRN SIZE (horizontally/vertically)

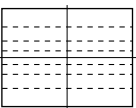
Move the joystick to the right.



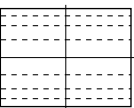
Move the joystick to the left.



Move the joystick up.

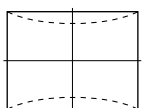


Move the joystick down.

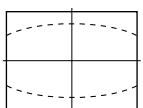
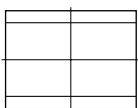


- 8) Select “GRN PIN”, and adjust so that upper and lower horizontal lines on the screen become straight.

• GRN PIN (vertically)



Move the joystick up.



Move the joystick down.

- 9) Press “⑨” button on the commander to enter the fine adjustment mode.
10) Make fine adjustment so that horizontal lines and vertical lines become straight.
11) Press “⑨” button on the commander to return to the rough adjustment mode.

2. Blue Adjustment

- 1) Place a cap on the red lens so that green and blue colors are displayed.
- 2) Press “③” button on the commander to select BLU mode.
- 3) Adjust the following items so that blue lines overlap with green lines.

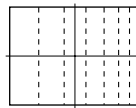
• BLU CENT (horizontally/vertically)

• BLU SKEW (horizontally/vertically)

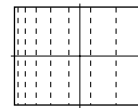
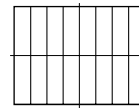
• BLU SIZE (horizontally/vertically)

• BLU LIN (horizontally)

Adjust so that each space at the right end and at the left end of screen is equal.



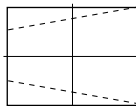
Move the joystick to the right.



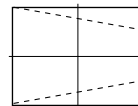
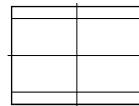
Move the joystick to the left.

• BLU KEY (vertically)

Adjust so that upper and lower horizontal lines on the screen become parallel.



Move the joystick up.



Move the joystick down.

• BLU PIN (vertically)

- 4) Press “⑨” button on the commander to enter the fine adjustment mode.
- 5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
- 6) Press “⑨” button on the commander to return to the rough adjustment mode.

3. Red Adjustment

- 1) Place a cap on the blue lens so that green and red colors are displayed.
- 2) Press “③” button on the commander to select RED mode.
- 3) Hereinafter, use same manner as that of blue adjustment to adjust so that the red lines overlap with green lines.

5-5-5. Deflection Adjustment

1. DRC1250 50 Hz (PAL) Mode

- 1) Enter the PAL SPCB signal, and set the DRC1250.
- 2) Set in the service mode, and write the following data to NVM.

Condition :

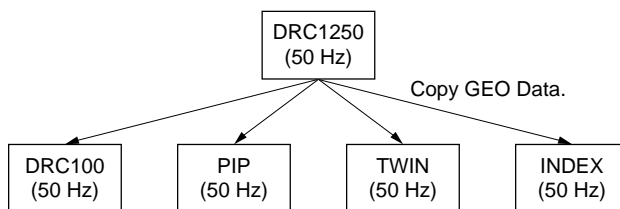
| Category | Item | Data |
|----------|--------|------|
| GEO | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 1F |
| MID | 00 HPH | 3E |
| | 01 VPH | 15 |

- 3) Adjust the main deflection. (Refer to 5-5-2.)

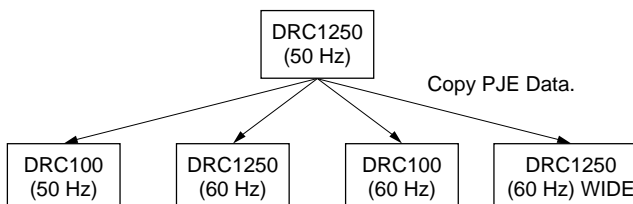
SPEC Overscan Spec. = 7.5%

| Input Signal | H SIZE | V SIZE |
|--------------|----------------|----------------|
| PAL SPCB | 16.6 ± 0.1 sq. | 12.5 ± 0.1 sq. |

- 4) After the Main Deflection Adjustment finished, press “⏏ (MUTE)”+“⓪” buttons on the commander to write the data to the NVM.
- 5) Select the category “GEO” and the item “19 CPY”, and set the data to “01”.
Press “⏏ (MUTE)”+“⓪” buttons to copy GEO data to other 50 Hz modes



- 6) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
- 7) After the Projector Engine Adjustment finished, press “⏏ (MUTE)”+“⓪” buttons on the commander to write the data to the NVM.
- 8) Press “②”+“⓪” buttons to copy PJE data to all other modes in the PJE mode.



2. DRC100 50 Hz (PAL) Mode

- 1) Enter the PAL SPCB signal, and set the DRC100.
- 2) Set in the service mode, and write the following data to NVM.

Condition :

| Category | Item | Data |
|----------|--------|------|
| GEO | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 1F |
| MID | 00 HPH | 3E |
| | 01 VPH | 0C |


- 3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC Overscan Spec. = 7.5%

| Input Signal | H SIZE | V SIZE |
|--------------|----------------|----------------|
| PAL SPCB | 16.6 ± 0.1 sq. | 12.5 ± 0.1 sq. |



- 4) After the Main Deflection Adjustment finished, press “⏏ (MUTE)”+“⓪” buttons on the commander to write the data to the NVM.
- 5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
- 6) After the Projector Engine Adjustment finished, press “⏏ (MUTE)”+“⓪” buttons on the commander to write the data to the NVM.

3. PIP 50 Hz (PAL) Mode


- 1) Enter the PAL SPCB signal, and set in the service mode.
- 2) Open the remote control cover, press “ (PIP)” button on the commander to set the PIP mode.
- 3) Confirm and set the following data.

Condition :

| Category | Item | Data |
|----------|--------|---|
| GEO | 00 VSZ | Same as DRC1250 50 Hz (PAL) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 1F |
| MID | 00 HPH | 3E |
| | 01 VPH | 15 |

- 4) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

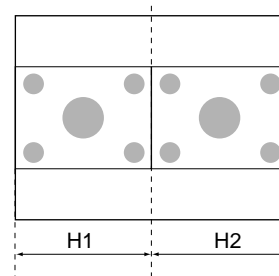
4. TWIN 50 Hz (PAL) Mode

- 1) Enter the PAL SPCB signal, and set in the service mode.
- 2) Press “ (TWIN)” button on the commander to set the TWIN mode.
- 3) Confirm and set the following data.



Condition :

| Category | Item | Data |
|----------|--------|---|
| GEO | 00 VSZ | Same as DRC1250 50 Hz (PAL) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 1F |
| MID | 00 HPH | 7B |
| | 01 VPH | 20 |
| | 11 TMP | 01 |
| | 12 TSP | 00 |

- 4) Select the category “GEO” and the item “05 HPS”, and adjust the horizontal position.



$$H1 - H2 = \pm 0.1 \text{ sq.}$$

- 5) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

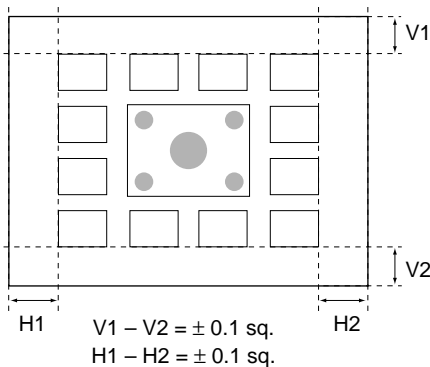
5. INDEX 50 Hz (PAL) Mode

- 1) Enter the PAL SPCB signal, and set in the service mode.
- 2) Press “PROGR INDEX” button on the commander to set the INDEX mode.
- 3) Confirm and set the following data.

Condition :

| Category | Item | Data |
|----------|--------|---|
| GEO | 00 VSZ | Same as DRC1250 50 Hz (PAL) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 1F |
| MID | 00 HPH | 78 |
| | 01 VPH | 1A |

- 4) Select the category “GEO” and the item “05 HPS” to adjust the horizontal position, and select the item “01 VPS” to adjust the vertical position.



- 5) Press “MUTE”+“0” buttons on the commander to write the data to the NVM.

6. DRC1250 60 Hz (NTSC) Mode

- 1) Enter the NTSC monoscope signal, and set the DRC1250.
- 2) Set in the service mode, and write the following data to NVM.

Condition :

| Category | Item | Data |
|----------|--------|------|
| GEO | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 22 |
| MID | 00 HPH | 49 |
| | 01 VPH | 25 |

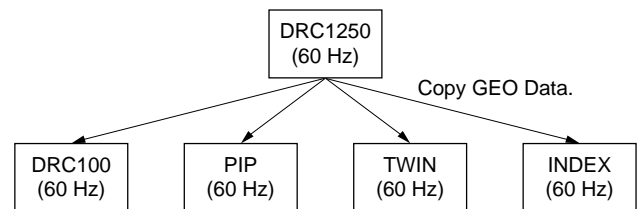
- 3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC

Overscan Spec. = 7.5%

| Input Signal | H SIZE | V SIZE |
|----------------|----------------|----------------|
| NTSC monoscope | 15.7 ± 0.1 sq. | 11.8 ± 0.1 sq. |

- 4) After the Main Deflection Adjustment finished, press “MUTE”+“0” buttons on the commander to write the data to the NVM.
- 5) Select the category “GEO” and the item “19 CPY”, and set the data to “01”.
Press “MUTE”+“0” buttons to copy GEO data to other 60 Hz modes



- 6) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
- 7) After the Projector Engine Adjustment finished, press “MUTE”+“0” buttons on the commander to write the data to the NVM.

7. DRC100 60 Hz (NTSC) Mode

- 1) Enter the NTSC monoscope signal, and set the DRC100.
- 2) Set in the service mode, and write the following data to NVM.





Condition :

| Category | Item | | Data |
|----------|------|-----|------|
| GEO | 0B | AGL | 07 |
| | 0C | BOW | 07 |
| | 15 | VSC | 22 |
| MID | 00 | HPH | 49 |
| | 01 | VPH | 13 |


- 3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC Overscan Spec. = 7.5%

| Input Signal | H SIZE | V SIZE |
|----------------|----------------|----------------|
| NTSC monoscope | 15.7 ± 0.1 sq. | 11.8 ± 0.1 sq. |



- 4) After the Main Deflection Adjustment finished, press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.
- 5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
- 6) After the Projector Engine Adjustment finished, press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

8. PIP 60 Hz (NTSC) Mode


- 1) Enter the NTSC monoscope signal, and set in the service mode.
- 2) Open the remote control cover, press “ (PIP)” button on the commander to set the PIP mode.
- 3) Confirm and set the following data.

Condition :

| Category | Item | | Data |
|----------|------|-----|-----------------------------------|
| GEO | 00 | VSZ | Same as DRC1250 60 Hz (NTSC) mode |
| | 01 | VPS | |
| | 02 | VLN | |
| | 03 | SCO | |
| | 04 | HSZ | |
| | 05 | HPS | |
| | 07 | PAP | |
| | 08 | UPN | |
| | 09 | LPN | |
| | 0A | TRZ | |
| | 0B | AGL | 07 |
| | 0C | BOW | 07 |
| | 15 | VSC | 22 |
| MID | 00 | HPH | 49 |
| | 01 | VPH | 25 |

- 4) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

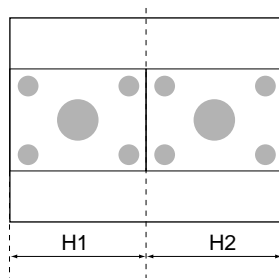
9. TWIN 60 Hz (NTSC) Mode



- 1) Enter the NTSC monoscope signal, and set in the service mode.
- 2) Press “ (TWIN)” button on the commander to set the TWIN mode.
- 3) Confirm and set the following data.

Condition :

| Category | Item | Data |
|----------|--------|-----------------------------------|
| GEO | 00 VSZ | Same as DRC1250 60 Hz (NTSC) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 22 |
| MID | 00 HPH | 6F |
| | 01 VPH | 2E |
| | 11 TMP | 01 |
| | 12 TSP | 00 |

- 4) Select the category “GEO” and the item “05 HPS”, and adjust the horizontal position.



- 5) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

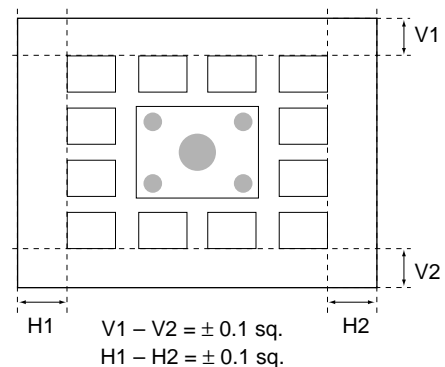
10. INDEX 60 Hz (NTSC) Mode



- 1) Enter the NTSC monoscope signal, and set in the service mode.
- 2) Press “PROGR INDEX” button on the commander to set the INDEX mode.
- 3) Confirm and set the following data.

Condition :

| Category | Item | Data |
|----------|--------|-----------------------------------|
| GEO | 00 VSZ | Same as DRC1250 60 Hz (NTSC) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 15 VSC | 22 |
| MID | 00 HPH | 6C |
| | 01 VPH | 2D |

- 4) Select the category “GEO” and the item “05 HPS” to adjust the horizontal position, and select the item “01 VPS” to adjust the vertical position.



- 5) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

11.DRC1250 WIDE 60 Hz (NTSC) Mode

- 1) Enter the NTSC monoscope signal and set the DRC1250.
- 2) Press “MENU” button on the commander and move “” up or down to enter the “FEATURE” ➔ “WIDE MODE”.
- 3) Select “WIDE MODE : ON”, and push “ (ENTER)” button.
- 4) Press “MENU” button to return to service mode screen.
- 5) Set in the service mode and write the following data to NVM.

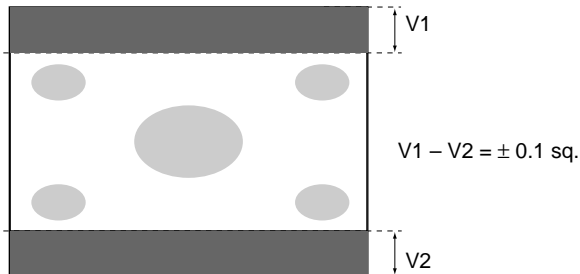
Condition :

| Category | Item | Data |
|----------|--------|------|
| GEO | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 14 VAS | 2C |
| | 15 VSC | 22 |
| | 16 USC | 01 |
| | 17 VBW | 03 |

- 3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC

| Input Signal | H SIZE |
|----------------|----------------|
| NTSC monoscope | 15.7 ± 0.1 sq. |



- 4) After the Main Deflection Adjustment finished, press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.
- 5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 6-5-3.)
- 6) After the Projector Engine Adjustment finished, press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

12.PIP WIDE 60 Hz (NTSC) Mode

- 1) Enter the NTSC monoscope signal and set in the service mode.
- 2) Set the WIDE mode and open the remote control cover, press “ (PIP)” button on the commander to set the PIP mode.
- 3) Confirm and write the following data.

Condition :

| Category | Item | Data |
|----------|--------|---|
| GEO | 00 VSZ | Same as DRC1250 WIDE 60 Hz (NTSC) mode |
| | 01 VPS | |
| | 02 VLN | |
| | 03 SCO | |
| | 04 HSZ | |
| | 05 HPS | |
| | 07 PAP | |
| | 08 UPN | |
| | 09 LPN | |
| | 0A TRZ | |
| | 0B AGL | 07 |
| | 0C BOW | 07 |
| | 14 VAS | 2C |
| | 15 VSC | 22 |
| | 17 VBW | 03 |

- 4) Press “ (MUTE)”+“” buttons on the commander to write the data to the NVM.

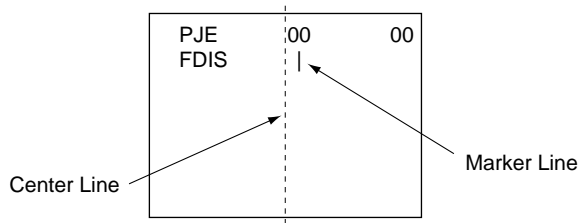
Note : Incase of replacing CRTs, adjust the set-up adjustments (items 3-1 to 3-7) and the registration adjustment (item 5-5).

In case of replacing two or three CRTs at the same time, replace and adjust one by one.

5-6. AUTO CONVERGENCE SETTING

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

1. Darken the periphery of this set.
2. Enter the PAL SPCB signal, and set the DRC100 mode.
3. Set in the service mode, and select the category "PJE" and the item "PWM2".
4. Adjust "PWM2" so that the marker line is on monoscope center line.



5. Press "⏏ (MUTE)" + "⓪" buttons on the commander to write the data to the NVM.
6. Press "⓪" (AUTO CONVERGENCE) button on the front panel of the set.
(The offset value is now automatically stored.)
7. Check that no error message appears.
If an error message appears, recheck. (Refer to 5-8.)
8. In the same manner, select DRC100 mode respectively, and press the "⓪" (AUTO CONVERGENCE) button.
9. Enter the NTSC monoscope signal, and perform the same steps in the DRC1250, DRC100 and DRC1250 WIDE modes respectively.

5-7. WHITE BALANCE ADJUSTMENT

1. Enter the monoscope signal.
2. Set in the service mode.
3. Press "MENU" button on the commander to select "A/V CONTROL" → "PICTURE MODE" → "ADJUST".

Adjustment Condition

PICTURE MODE : PERSONAL
PICTURE : 0%
BRIGHT : 50%

If the noise of DCF (Digital Comb Filter) has an effecting white balance adjustment, change service data as follows while the adjustment.

OPM 06 COM : 00 → 01

(This time, beginning inspection also should be done under some condition.)

Adjusting Parameter

| Category | Item |
|----------|--------|
| WHB | 02 SBR |
| | 03 RDR |
| | 05 BDR |
| | 06 RCT |
| | 08 BCT |

4. Adjust "02 SBR" so that 10 IRE section barely grows.
3. Enter the all-white pattern signal.
6. Adjust "06 RCT" and "08 BCT" so as to attain the optimum white balance.
7. Adjust "02 SBR" so that 100 IRE section barely grows.
8. Adjust "03 RDR" and "05 BDR" so as to attain the optimum white balance.
9. Repeatedly adjust the white balance for the minimum and maximum picture setting.
10. Enter the monoscope signal, and select "SAJ 00 PIC", and set the data to "00".
11. Adjust "02 SBR" so that the border between 0 IRE and 10 IRE becomes distinct.

5-8. AUTO CONVERGENCE ERROR CODE LIST

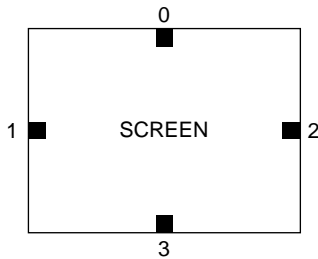
If an error code is displayed after the set has been fully adjusted, correctly, please check the following items : position, tilt and sizing. If either of these adjustments are off, even slightly, the auto registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensor to read. Therefore, auto registration (called auto convergence) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

ERROR CODE LIST

| ERROR CODE | DESCRIPTION | NOTE |
|------------|-------------------------|---|
| 00 | No Error | |
| 10 | Sensor Input Level Low | * Check wiring, beam position, sensor. 0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center |
| 20 | Sensor Input Level High | * Check OP-Amp circuit. 0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center |
| 30 | Loop Limit Over | * Check the registration information on the convergence board. |
| 40 | Regi Data Overflow | * Check the convergence yoke driver ICs. |
| 50 | Regi Data Overdraw | |
| 60 | Offset Data Overflow | * Convergence patterns displayed are out of normal range. |
| 70 | Offset Data Overdraw | |

* : In case of multiple error, last error is displayed.

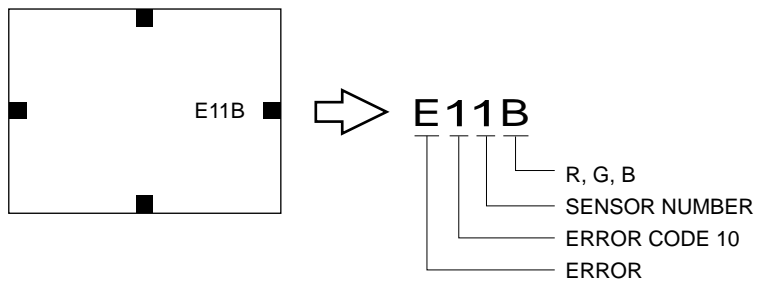
[SENSOR POSITION]



0 : UPPER SENSOR
1 : LEFT SENSOR
2 : RIGHT SENSOR
3 : LOWER SENSOR

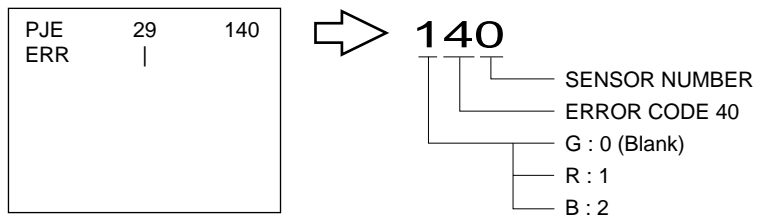
• ERROR CODE SCREEN DISPLAY

(When press “ (AUTO CONVERGENCE)” button.)



• ERROR CODE SCREEN DISPLAY

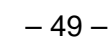
(When select “PJE” → “29 ERR”.)



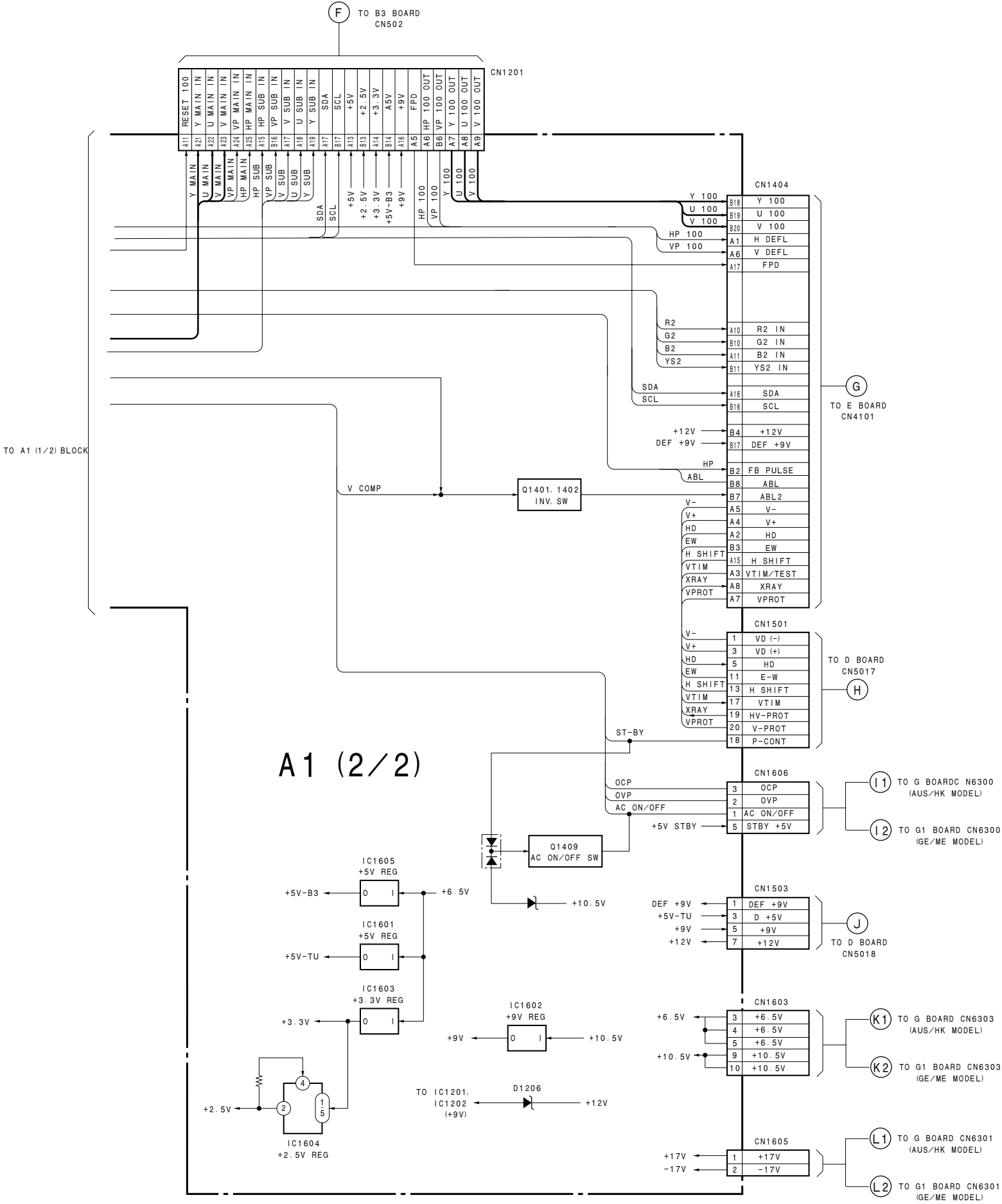
Category : PJE
Item : 29 ERR

KP-XR43M31/M61/M90/M91, XR53M31/M61/M90/M91
RM-961

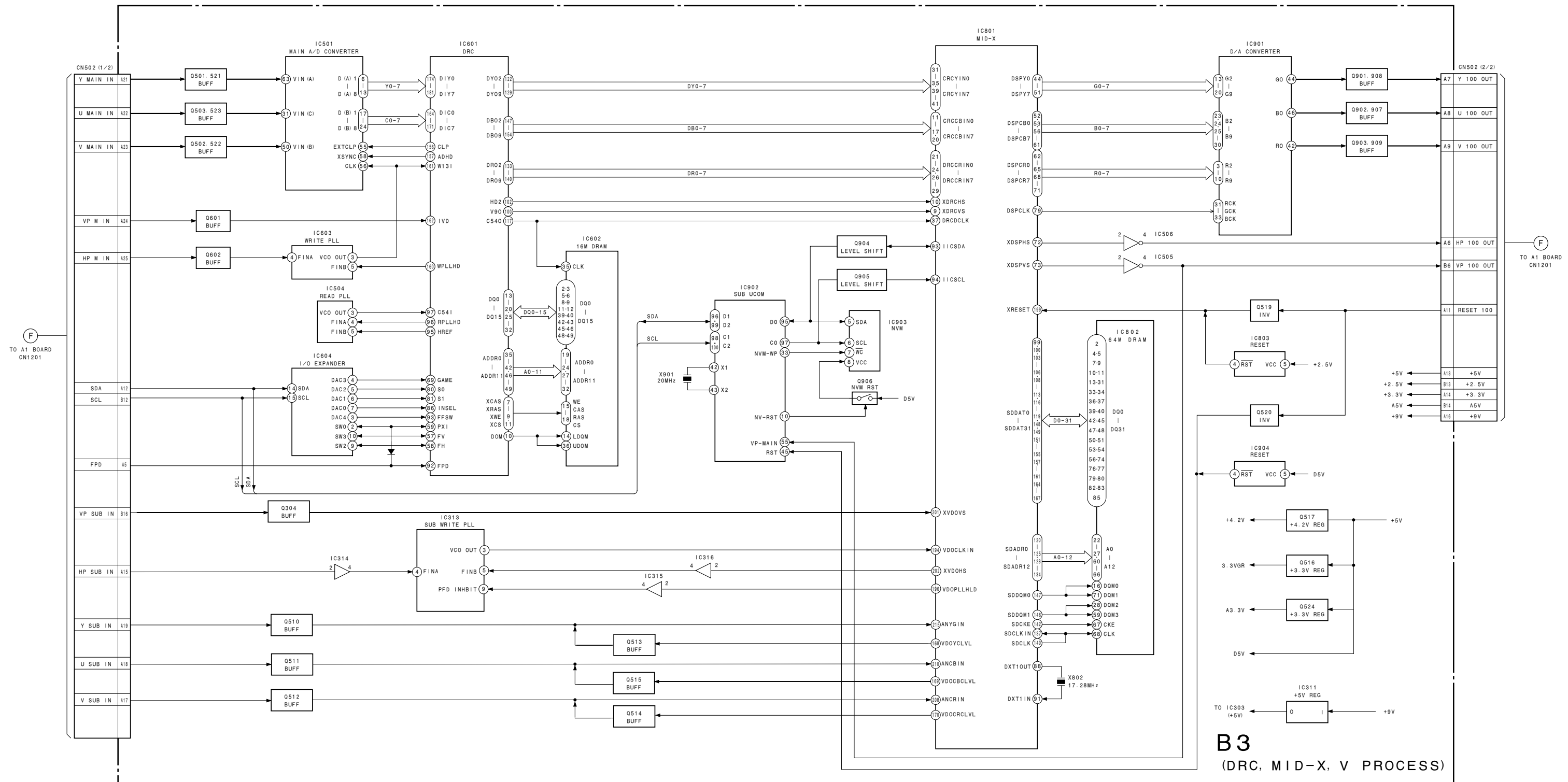
6-1-1. A1(1/2) BOARD BLOCK DIAGRAM



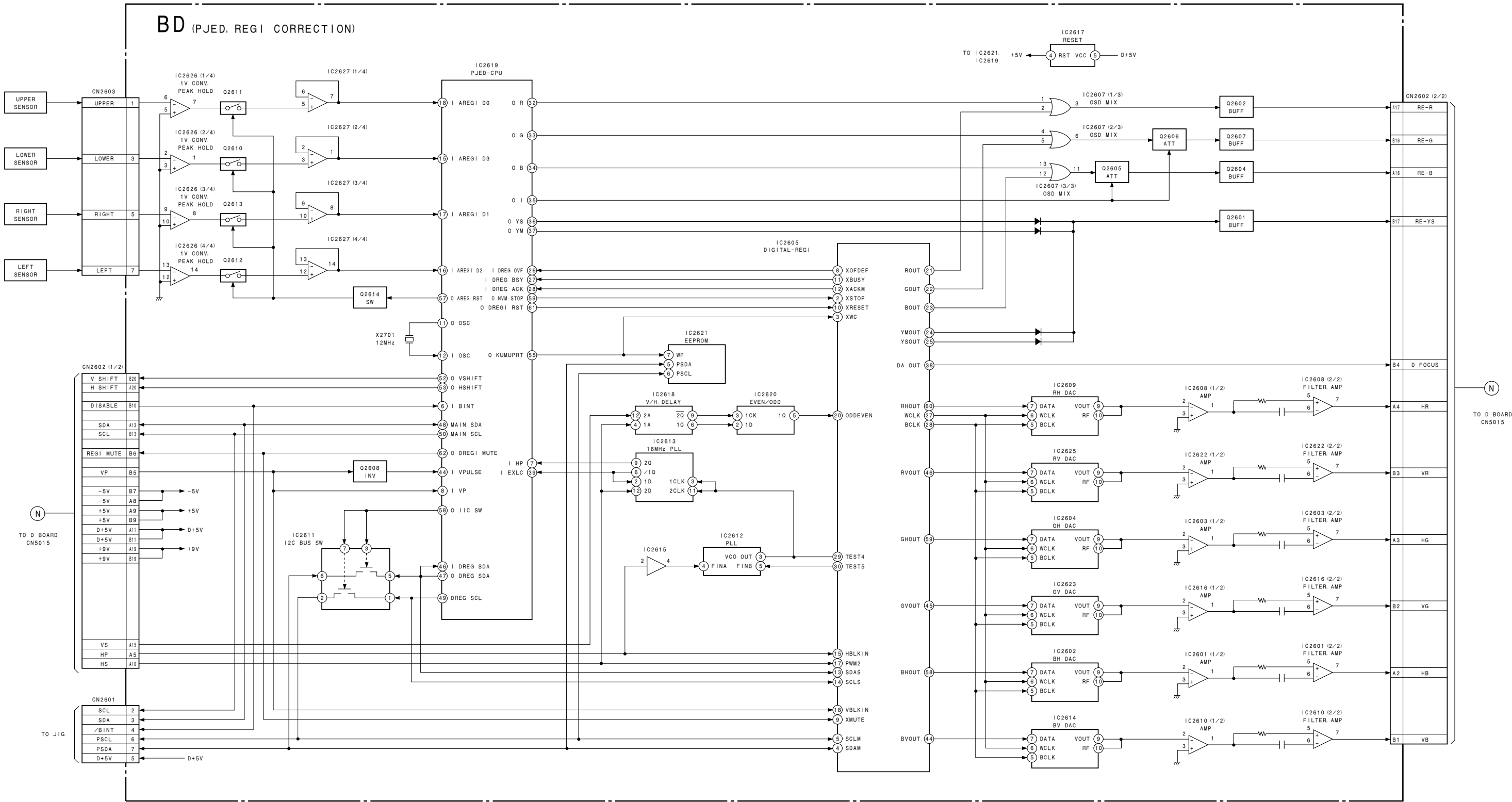
6-1-2. A1(2/2) BOARD BLOCK DIAGRAM



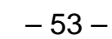
6-1-3. B3 BOARD BLOCK DIAGRAM



6-1-4. BD BOARD BLOCK DIAGRAMS



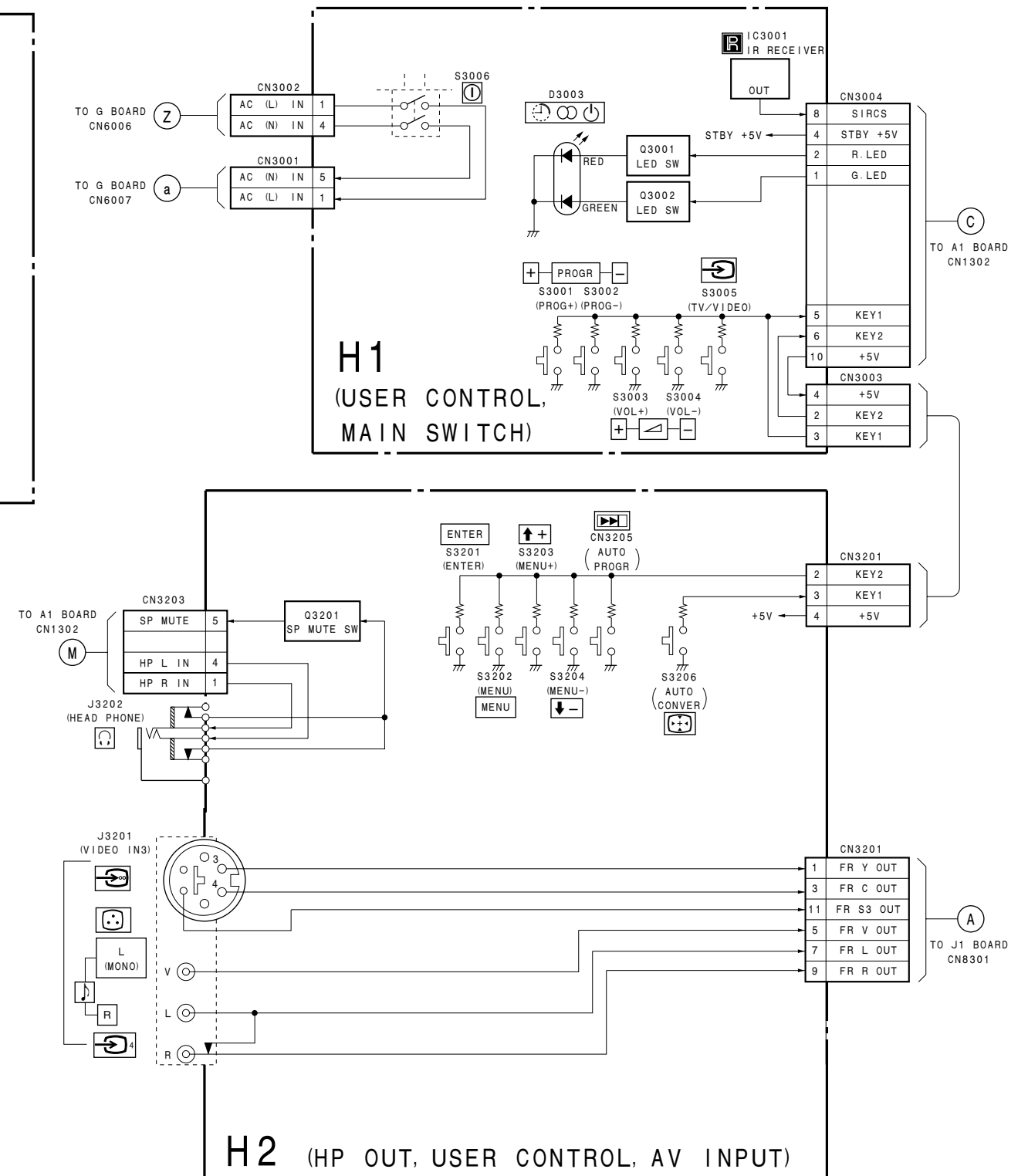
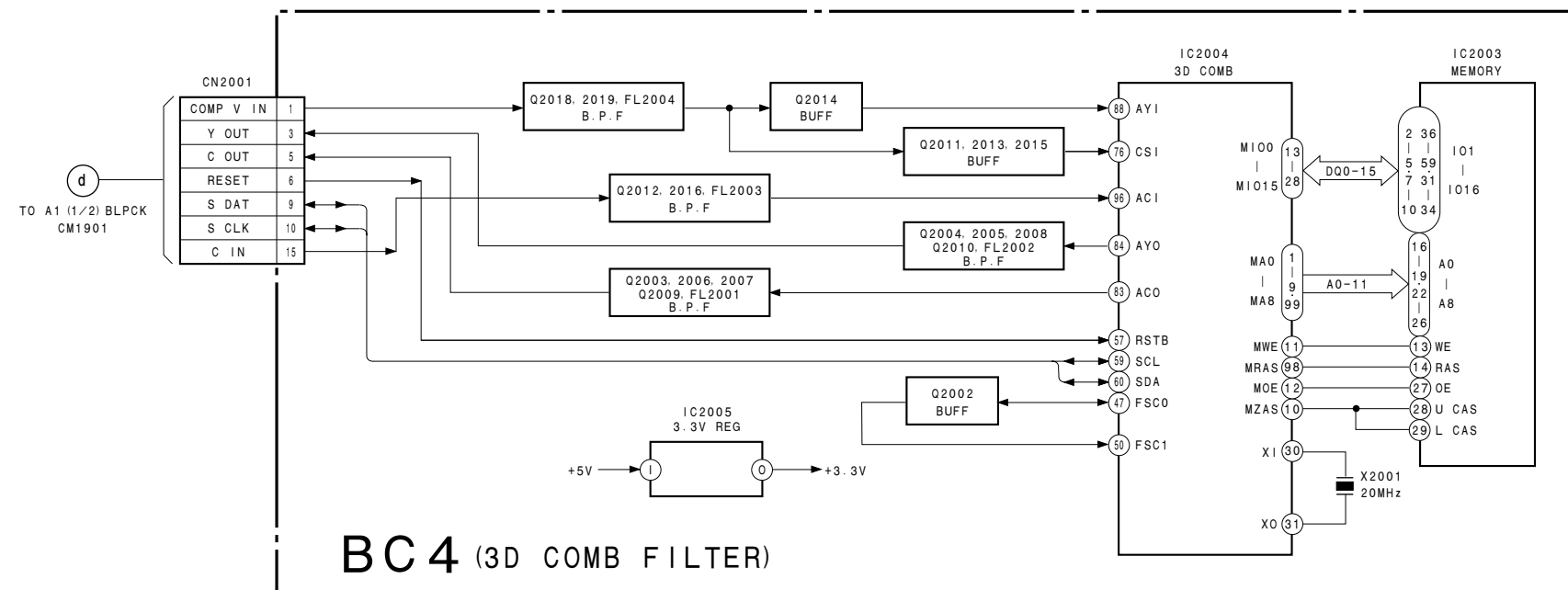
6-1-5. J1 BOARD BLOCK DIAGRAMS



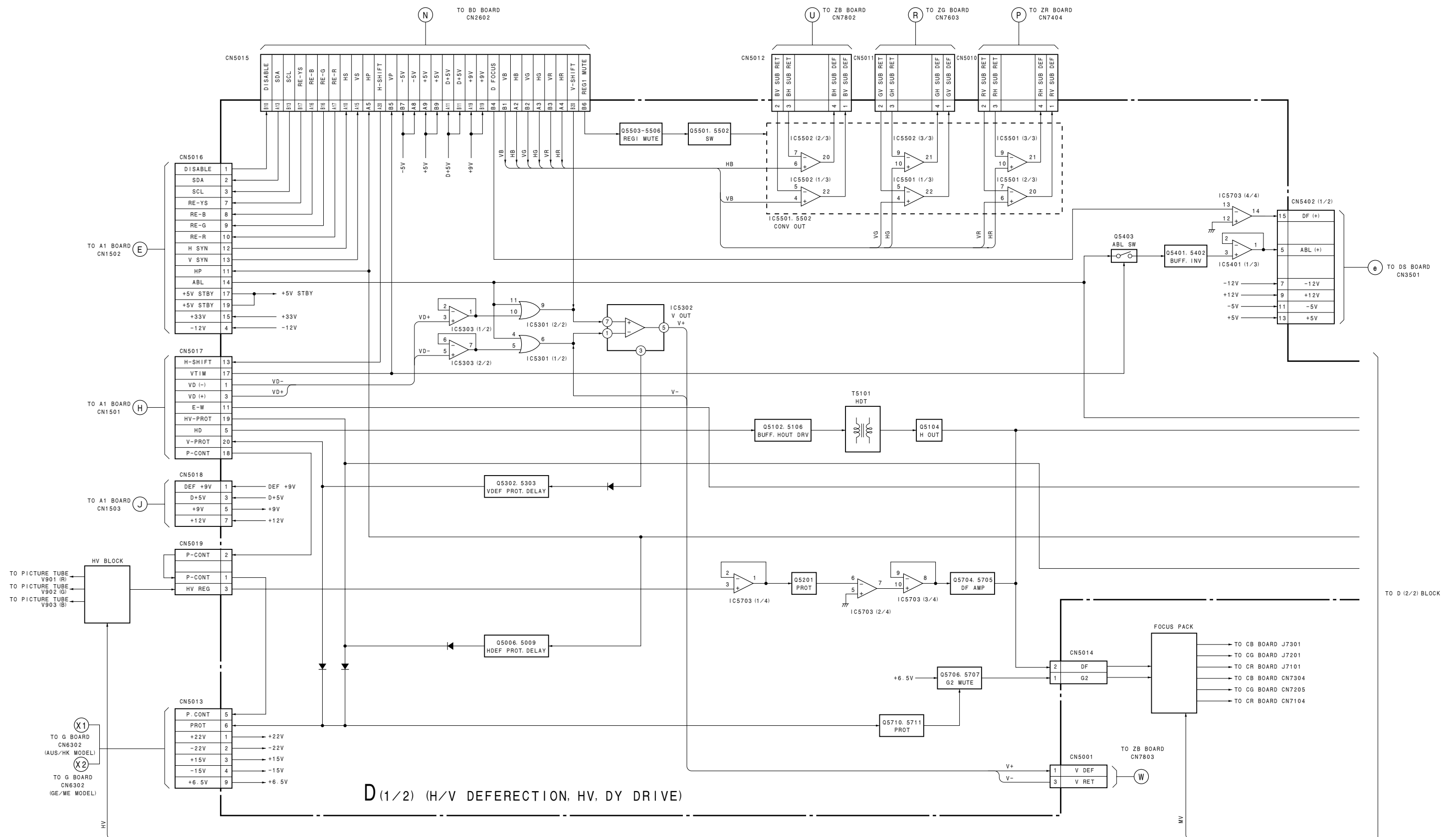
6-1-6. M1 BOARD BLOCK DIAGRAMS



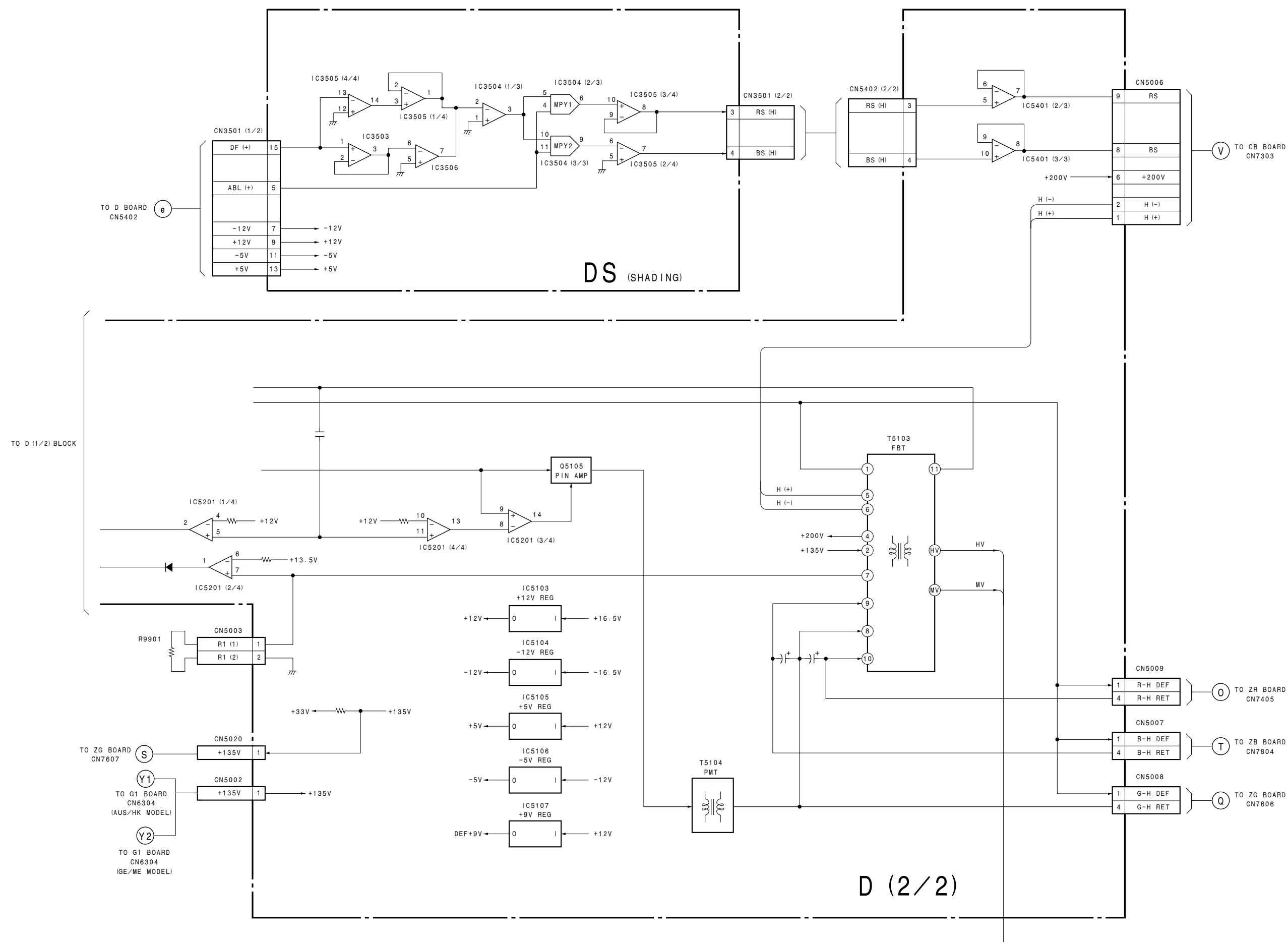
6-1-7. BC4, H1 AND H2 BOARDS BLOCK DIAGRAMS



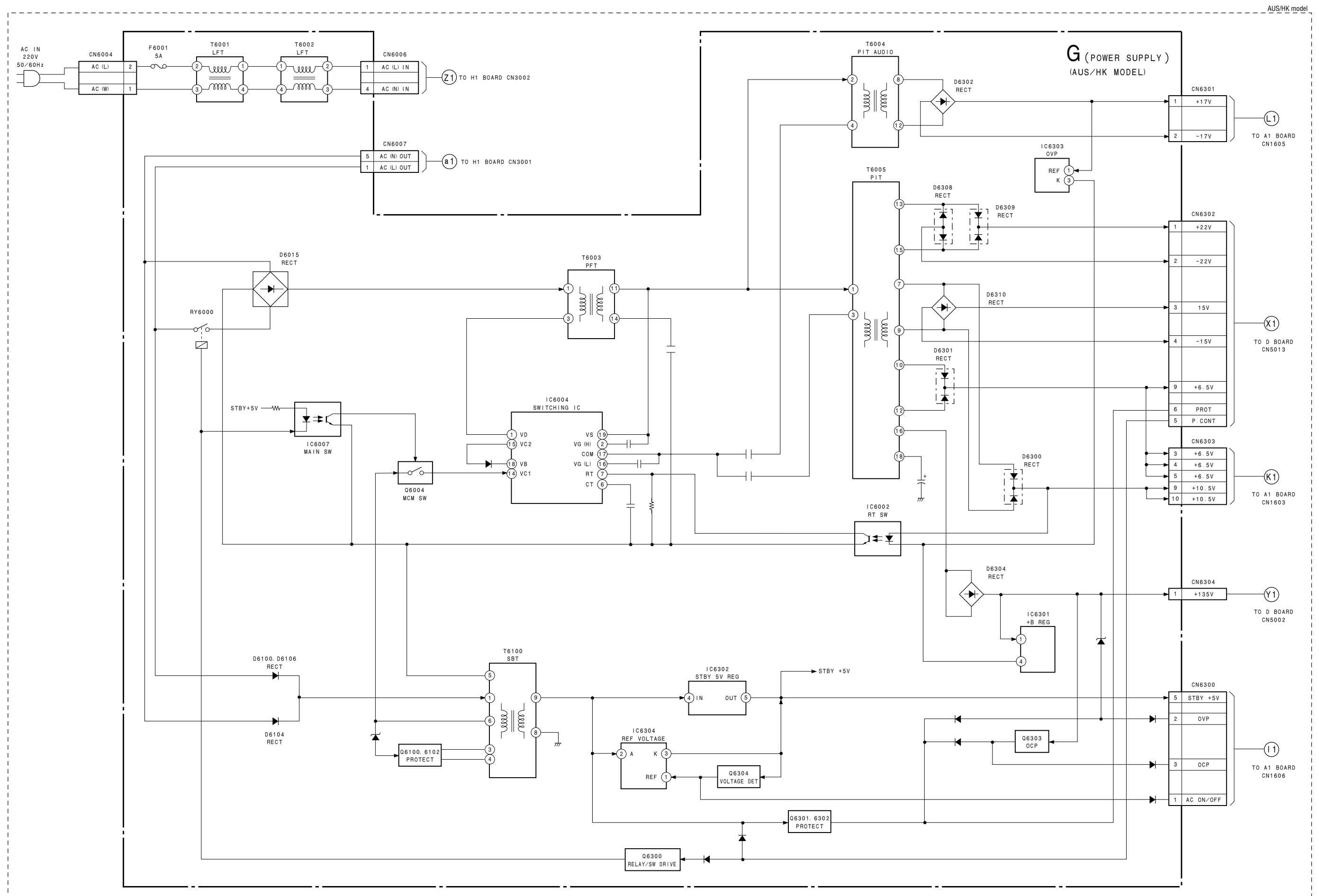
6-1-8. D(1/2) BOARD BLOCK DIAGRAMS



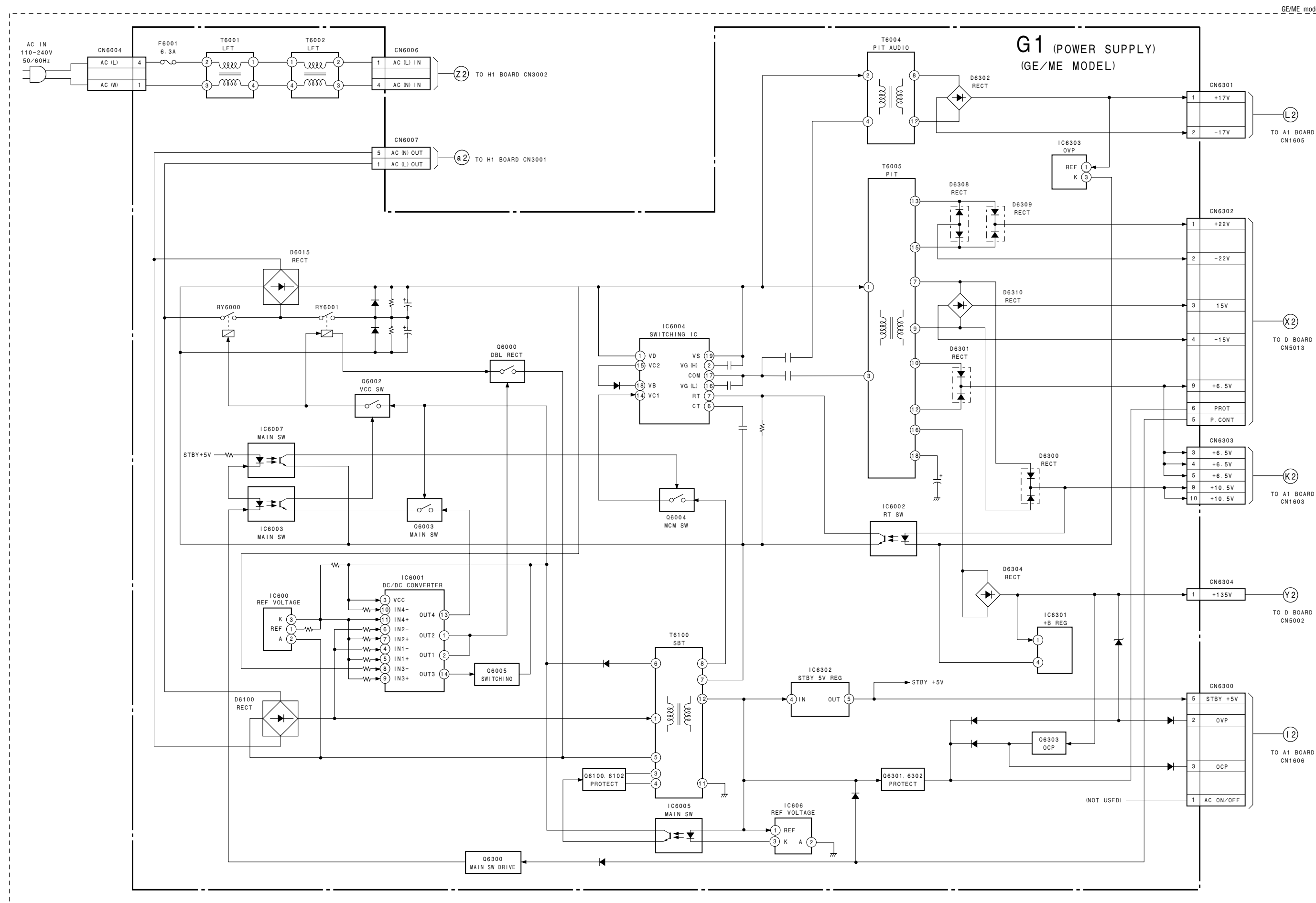
6-1-9. D(2/2) AND DS BOARDS BLOCK DIAGRAMS



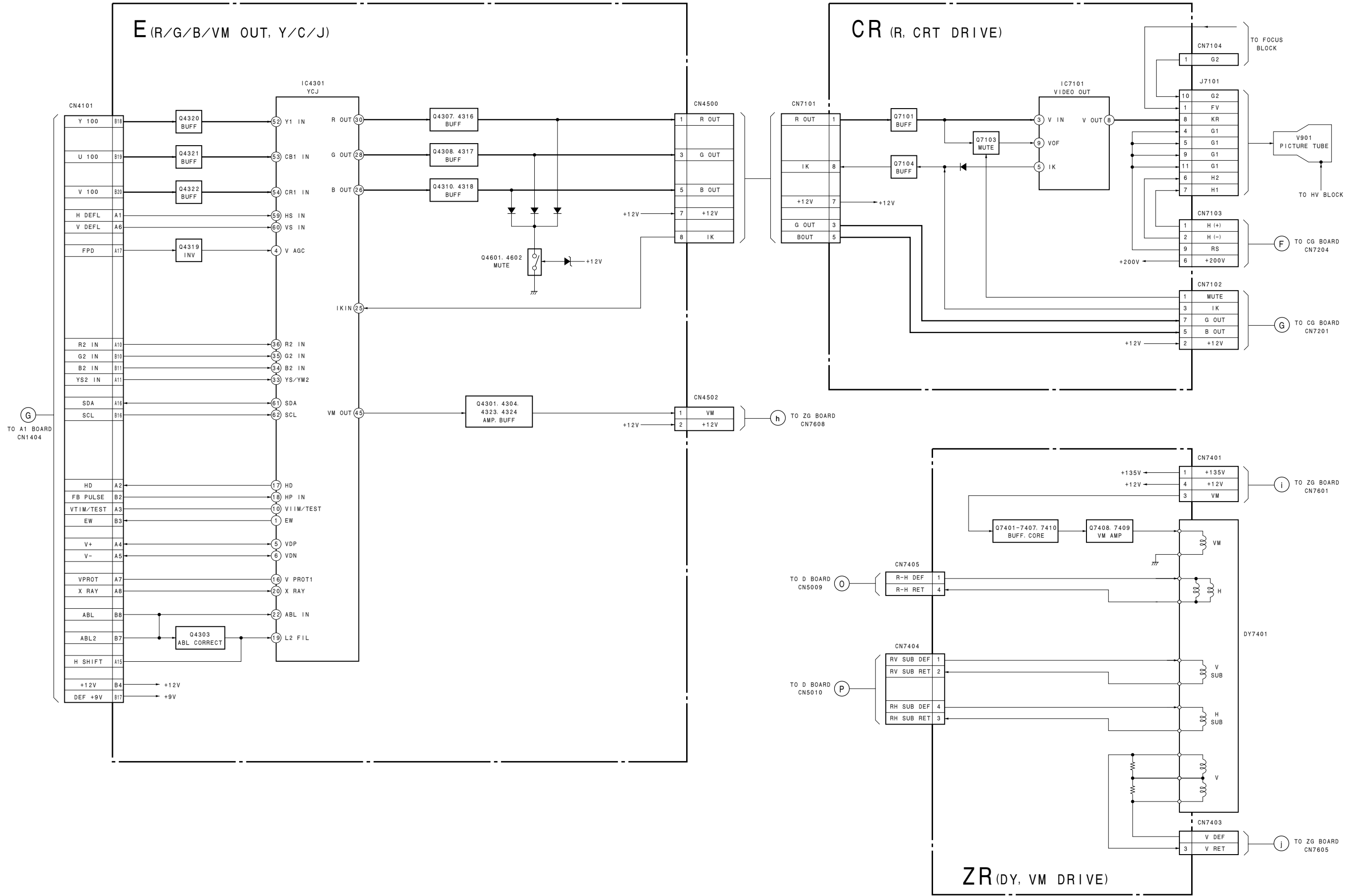
6-1-10. G BOARD BLOCK DIAGRAM



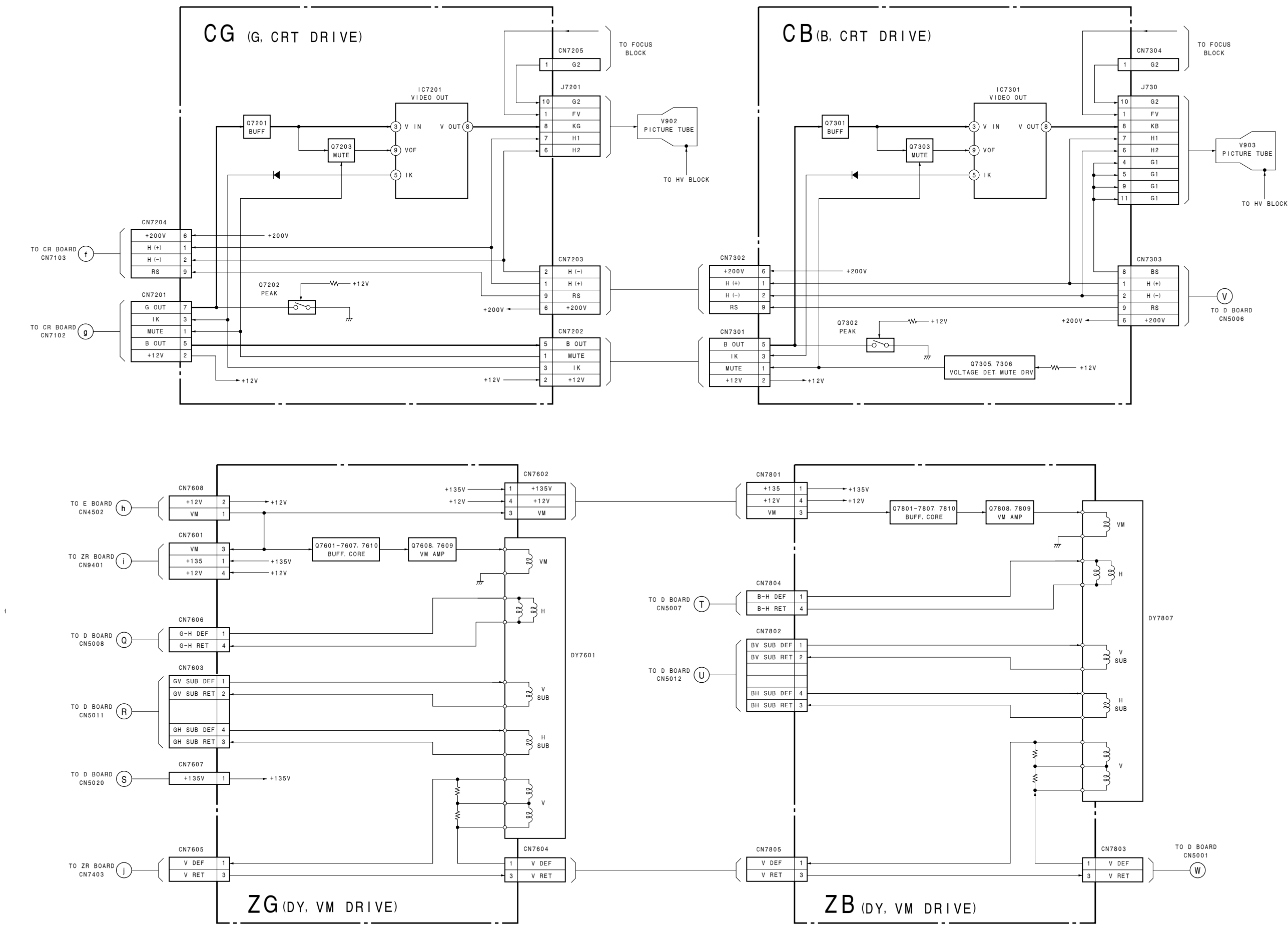
6-1-11. G1 BOARD BLOCK DIAGRAM



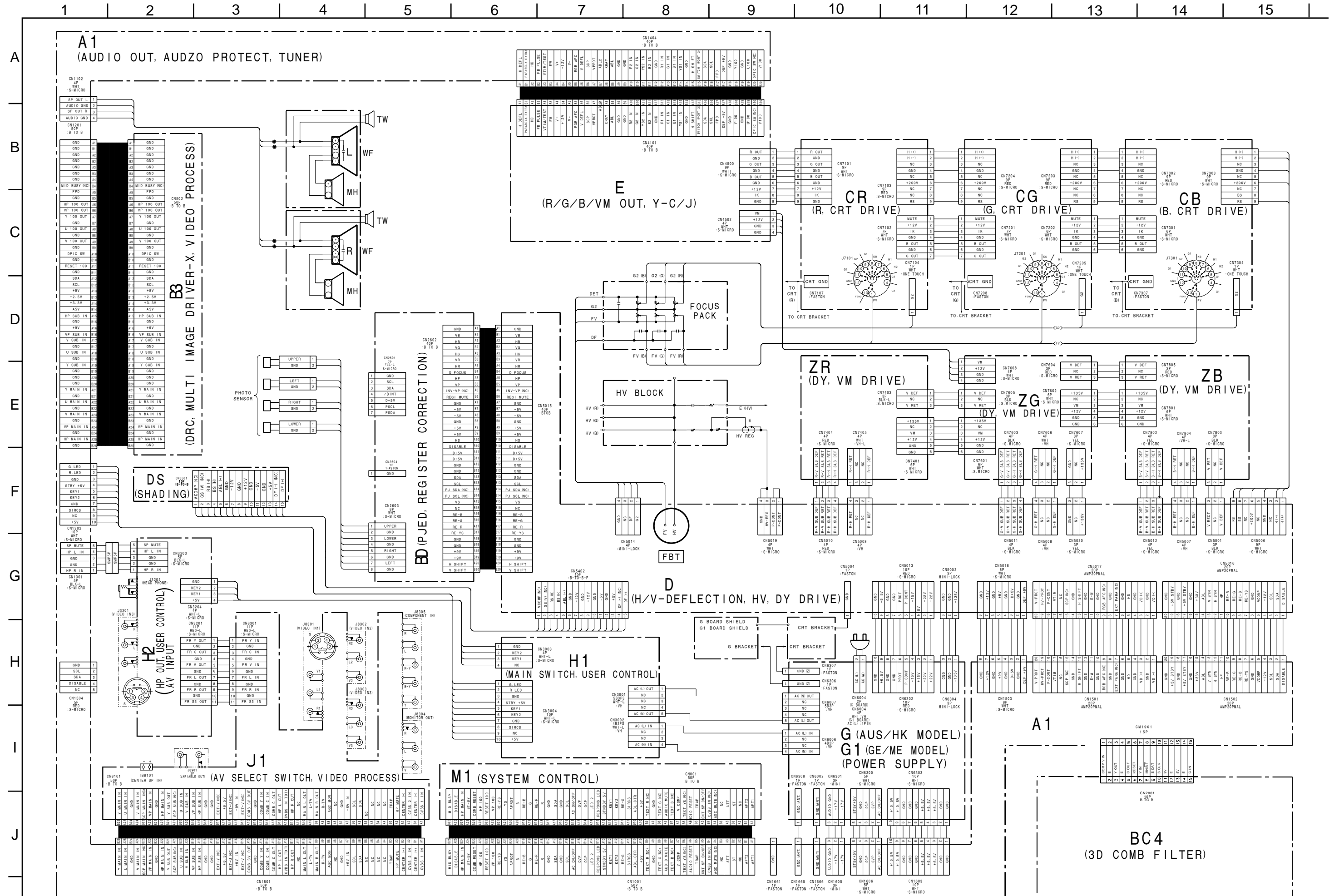
6-1-12. E, CR AND ZR BOARDS BLOCK DIAGRAMS



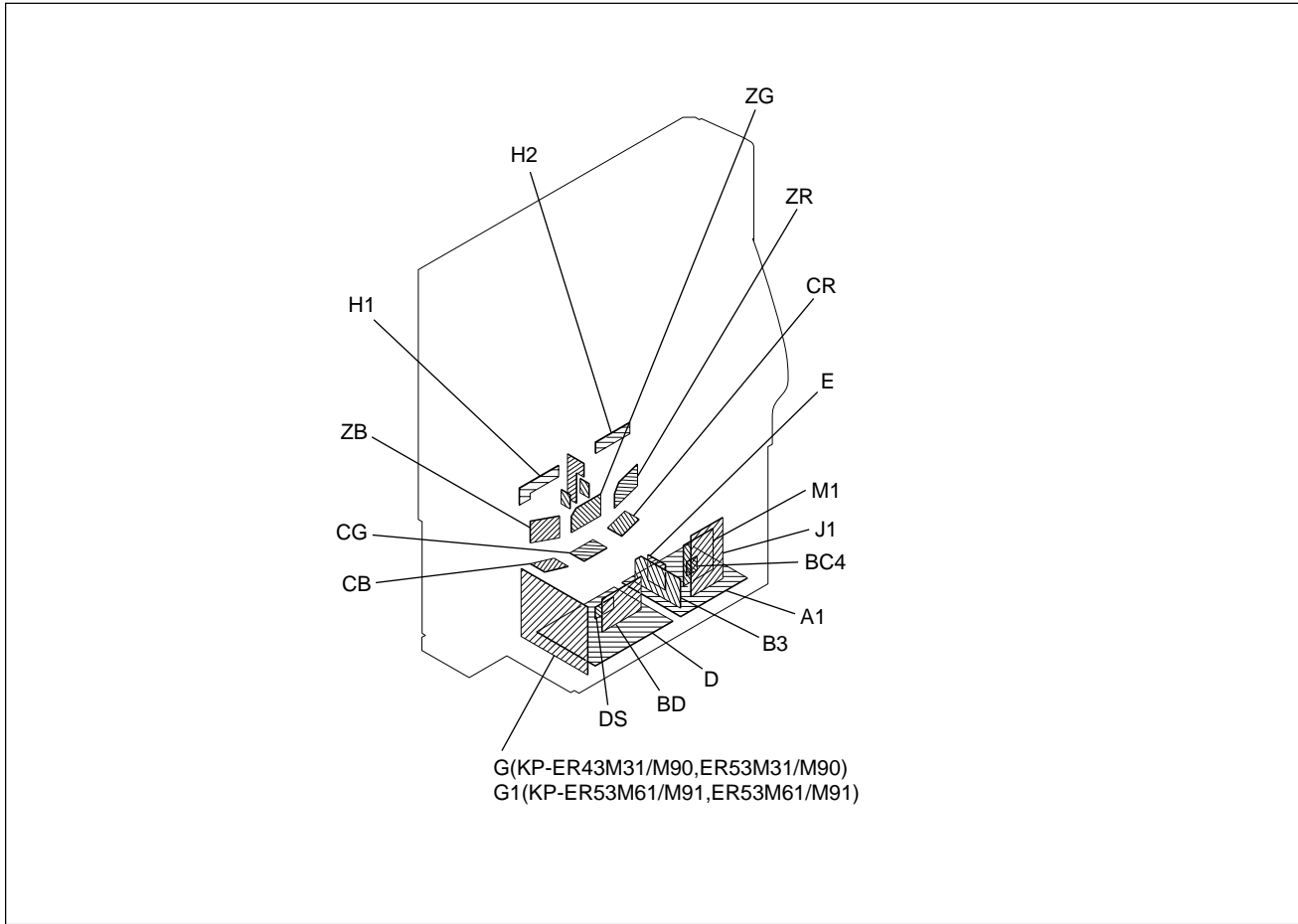
6-1-13. CG, CB, ZG AND ZB BOARDS BLOCK DIAGRAMS



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



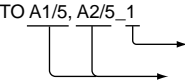
6-4. SCHEMATIC DIAGRAMS

- Note:**
- All capacitors are in μF unless otherwise noted. (pF : μF) Capacitors without voltage indication are all 50 V.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)
- All resistors are in ohms.
 - : nonflammable resistor.
 - : fusible resistor.
 - Δ : internal component.
 - : panel designation, and adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - \perp : earth-ground.
 - : earth-chassis.
 - All voltages are in V.
 - Readings are taken with a 10 M digital multimeter.
 - Readings are taken with a color-bar signal input.
 - Voltage variations may be noted due to normal production tolerances.
 - * : Can not be measured.
 - NO MARK: Common
 - < > : SECAM
 - () : NTSC 3.58 MHz
 - Circled numbers are waveform references.
 - : B + bus.
 - : B - bus.
 - : Signal path.

| Reference information | | |
|-----------------------|---------|--------------------------|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : LF-8L | MICRO INDUCTOR |
| COIL | : TA | TANTALUM |
| CAPACITOR | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

Note: The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

- Divided circuit diagram
Schematic diagrams of A, D, and E boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.
For example, [TO A1/5, A2/5_1] means the line is connected to Ref. No. 1 of A(1/5) and A(2/5) schematic diagrams.



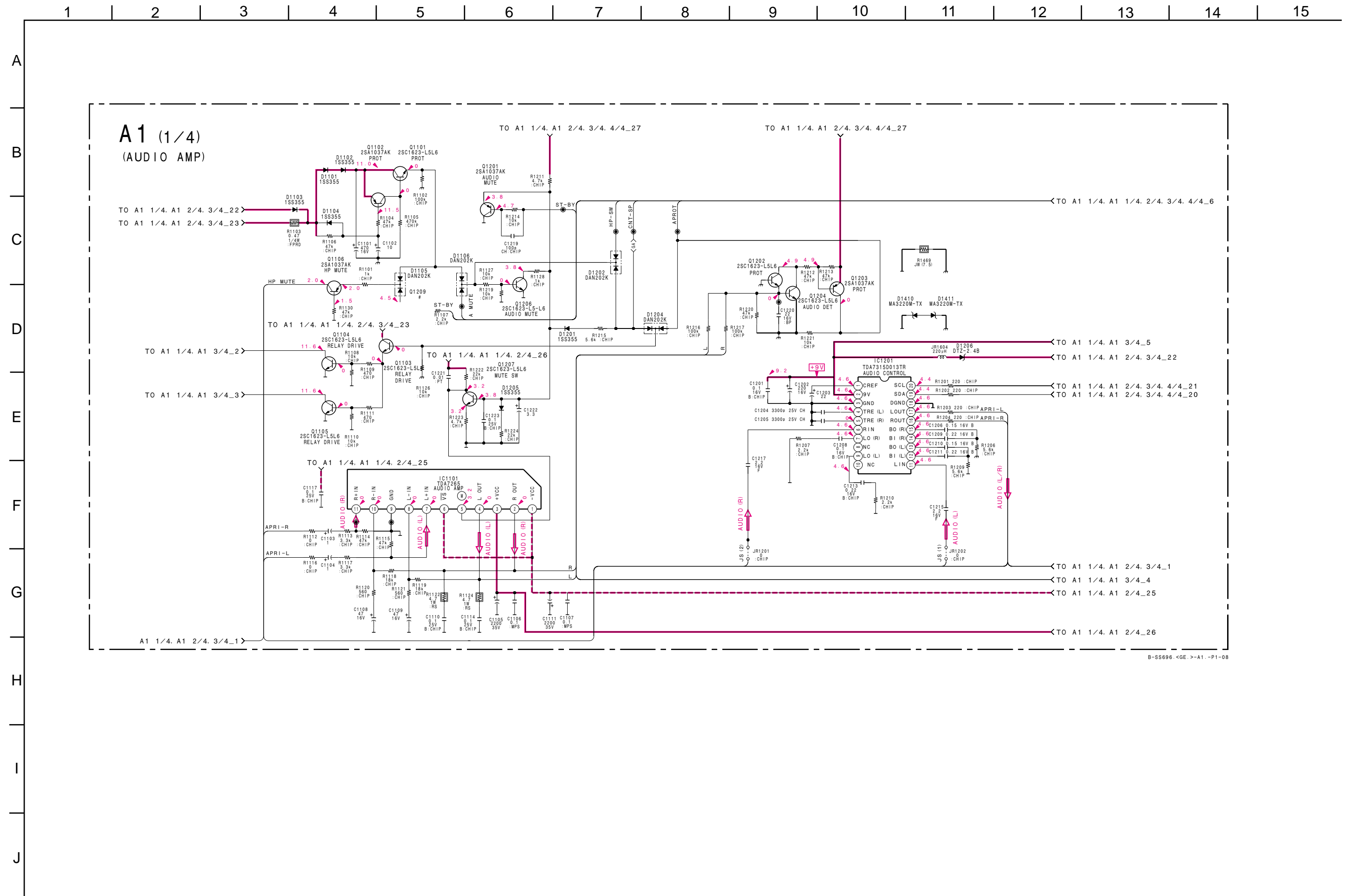
Terminal name of semiconductors in silk screen printed circuit (※)

| | Device | Printed symbol | Terminal name | Circuit |
|---|------------------------|----------------|--------------------------------------|---------|
| ① | Transistor | | Collector Base Emitter | |
| ② | Transistor | | Collector Base Emitter | |
| ③ | Diode | | Cathode Anode | |
| ④ | Diode | | Cathode Anode (NC) | |
| ⑤ | Diode | | Cathode Anode (NC) | |
| ⑥ | Diode | | Common Anode Cathode | |
| ⑦ | Diode | | Common Anode Cathode | |
| ⑧ | Diode | | Common Anode Anode | |
| ⑨ | Diode | | Common Anode Anode | |
| ⑩ | Diode | | Common Cathode Cathode | |
| ⑪ | Diode | | Common Cathode Cathode | |
| ⑫ | Diode | | Anode Cathode Anode Cathode | |
| ⑬ | Transistor (FET) | | Drain Source Gate | |
| ⑭ | Transistor (FET) | | Drain Source Gate | |
| ⑮ | Transistor (FET) | | Source Drain Gate | |
| ⑯ | Transistor | | Emitter Collector Base | |
| — | Discrete semiconductor | | | |

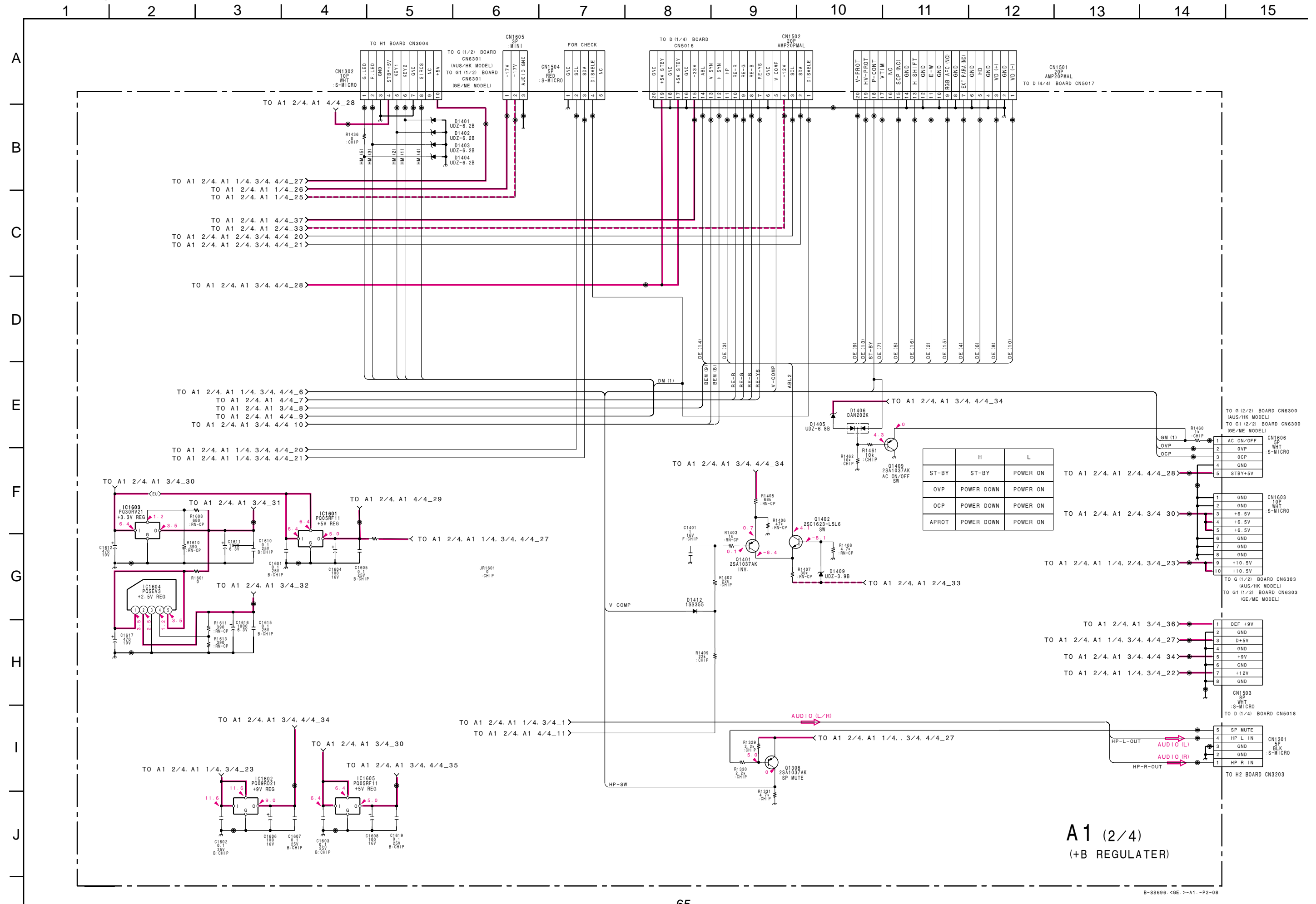
(Chip semiconductors that are not actually used are included.)

Ver.1.6

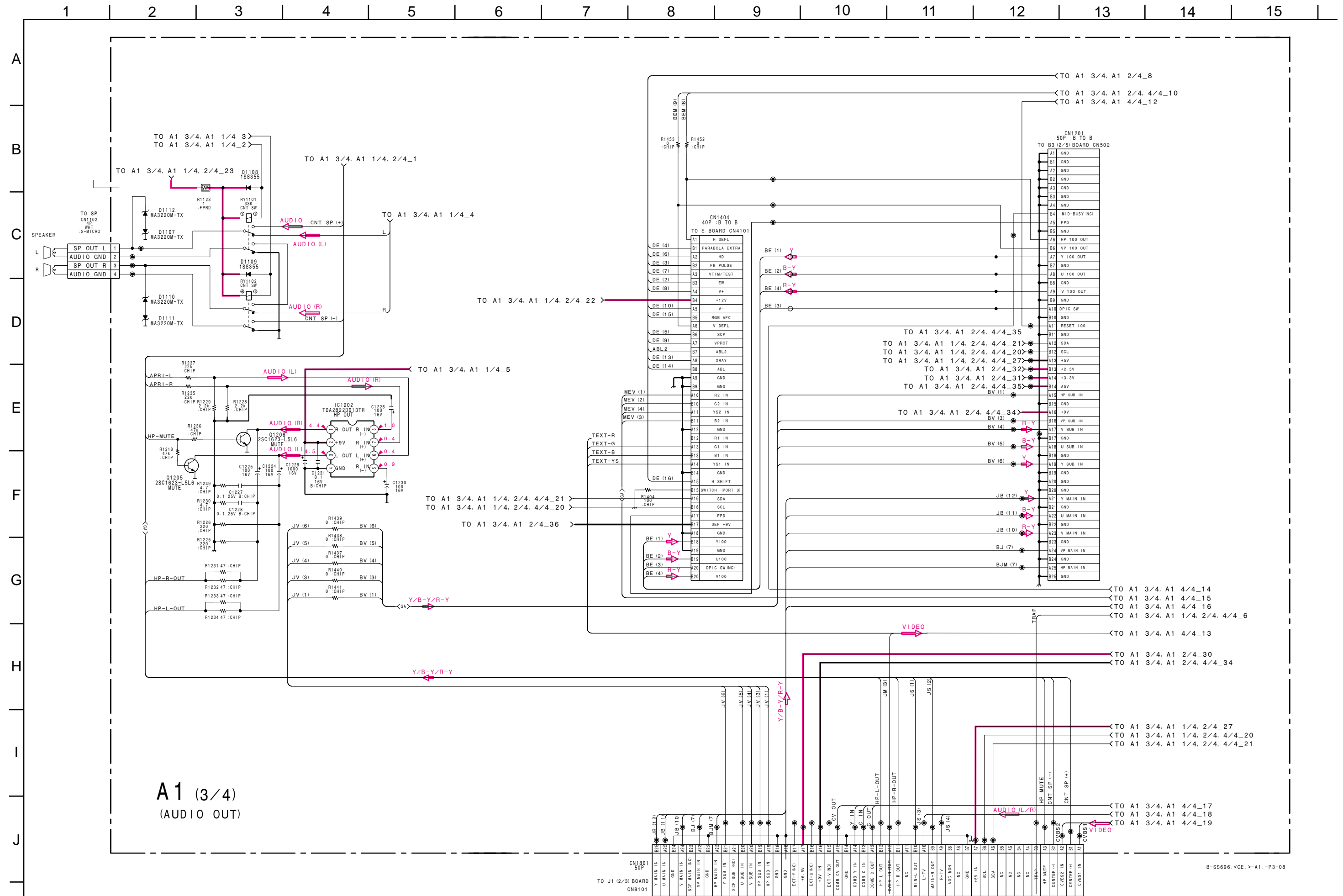
(1) Schematic Diagram of A1(1/4) Board



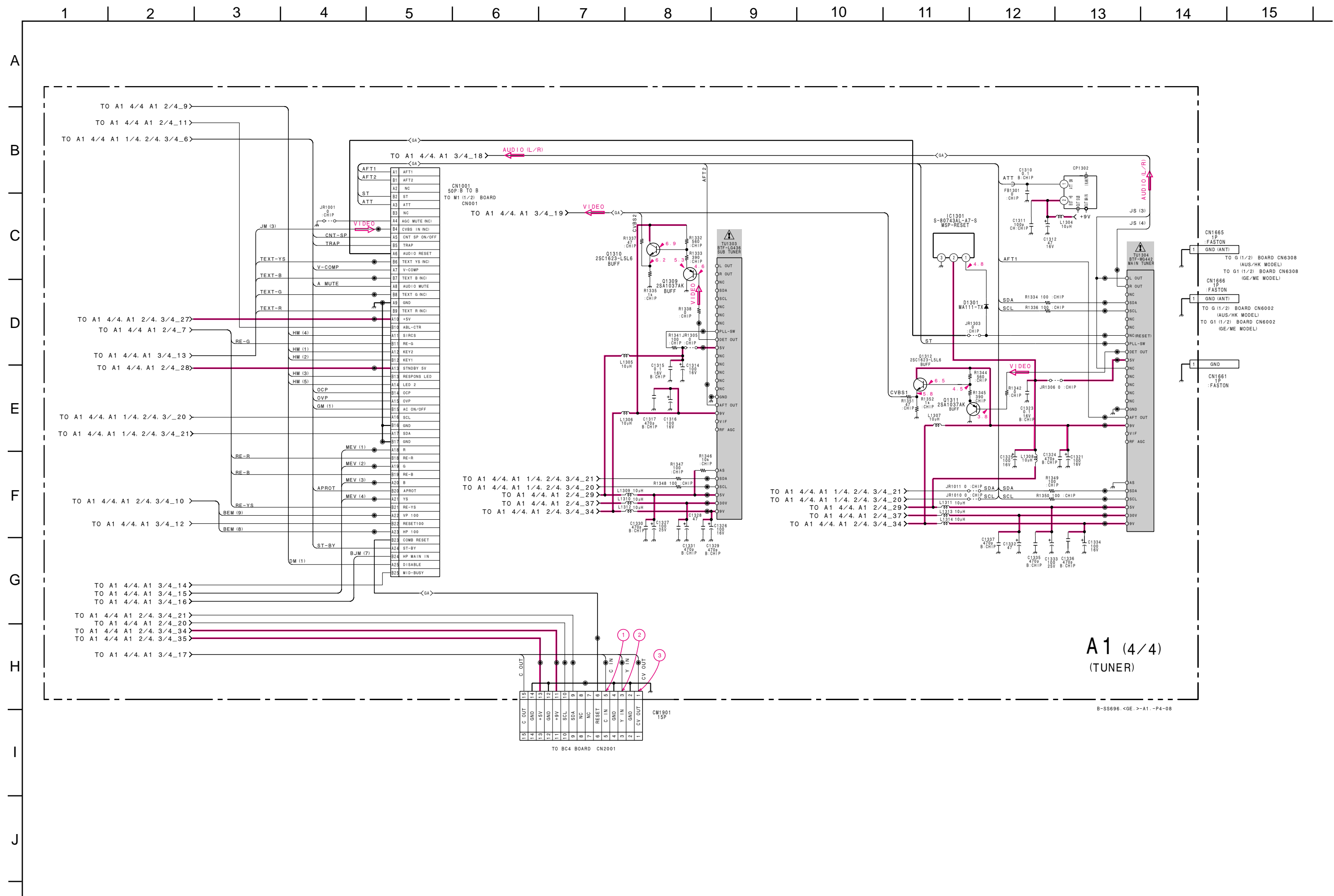
(2) Schematic Diagram of A1(2/4) Board



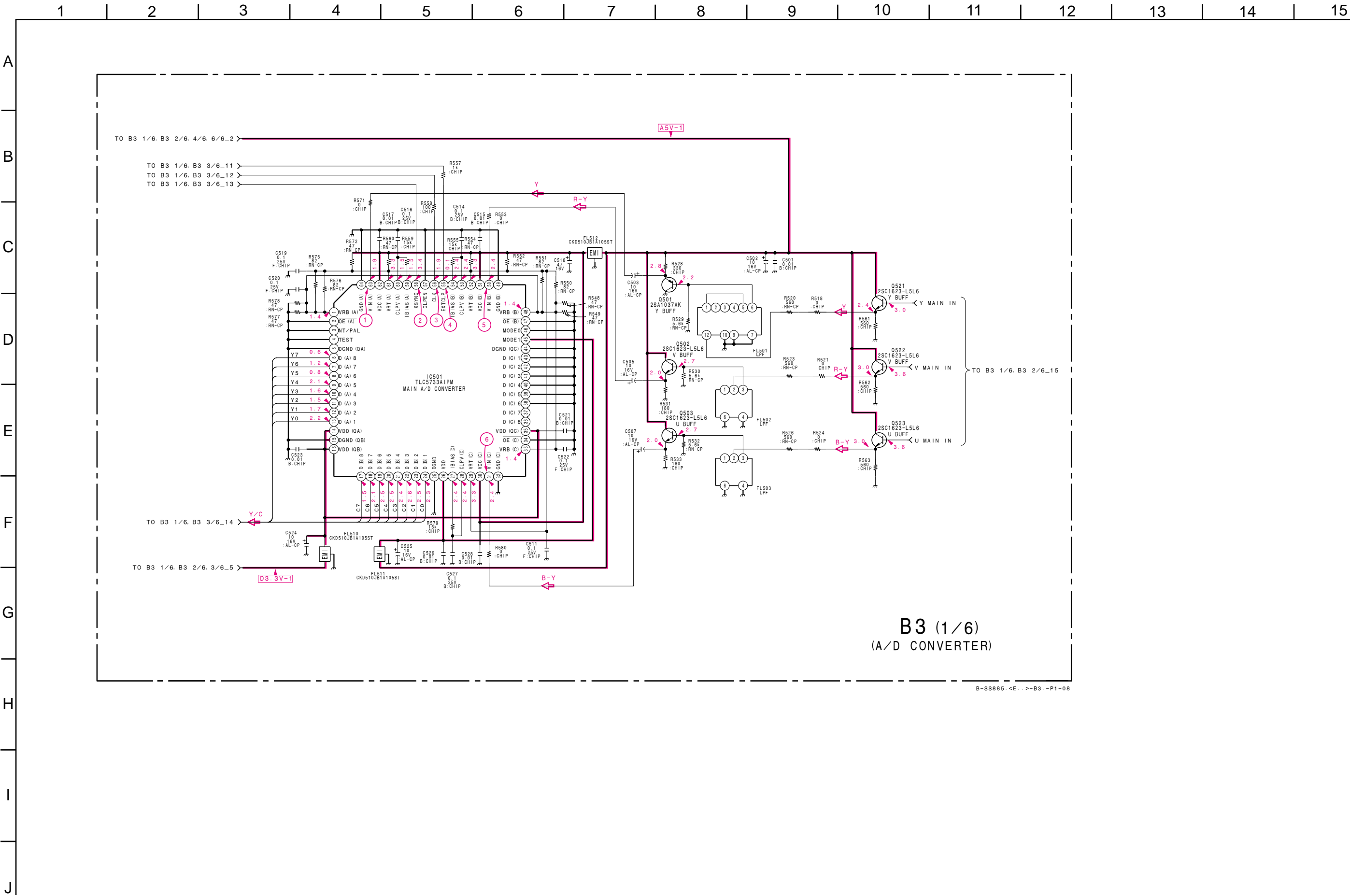
(3) Schematic Diagram of A1(3/4) Board



(4) Schematic Diagram of A1(4/4) Board

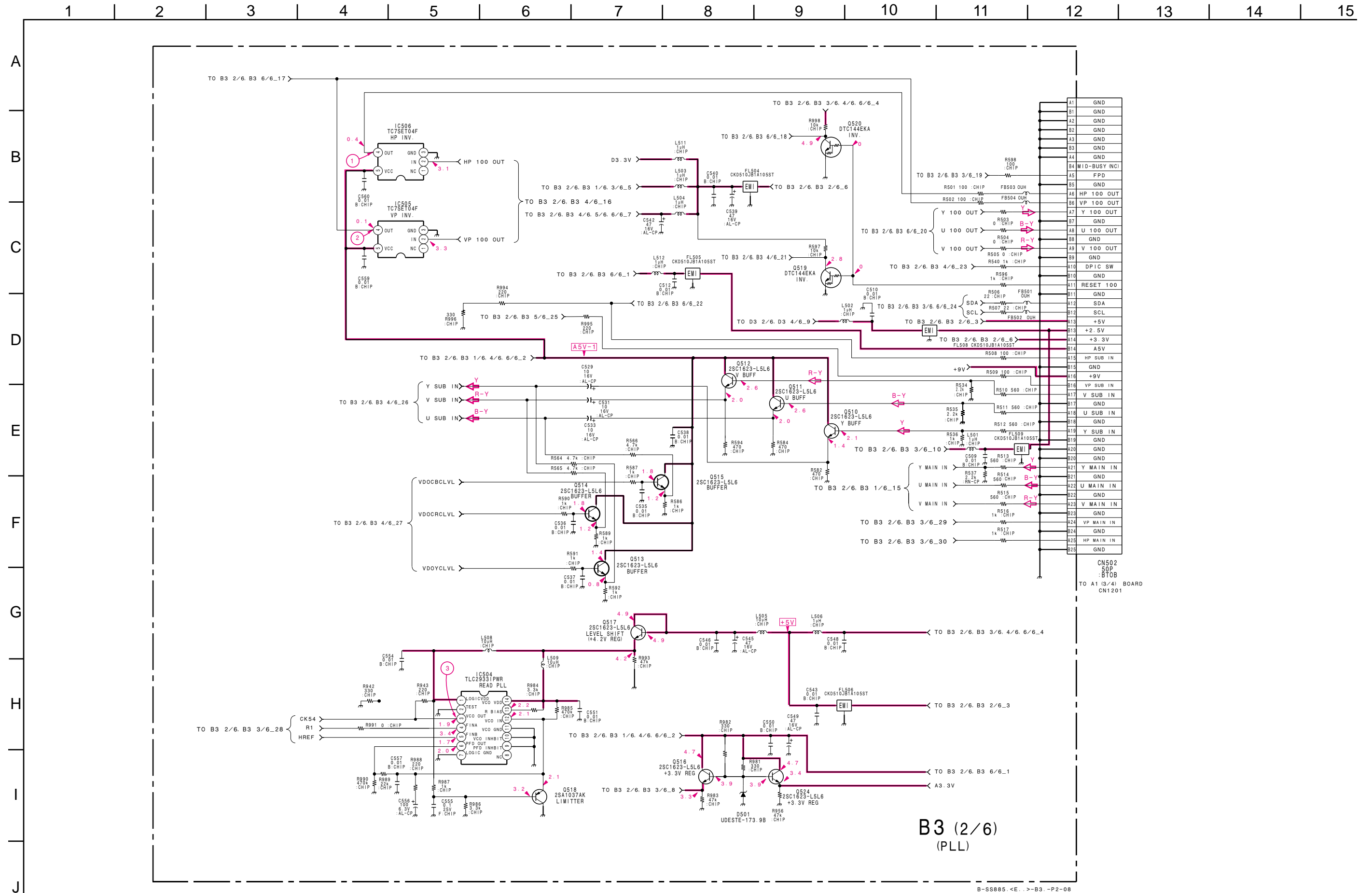


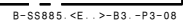
(5) Schematic Diagram of B3(1/6) Board



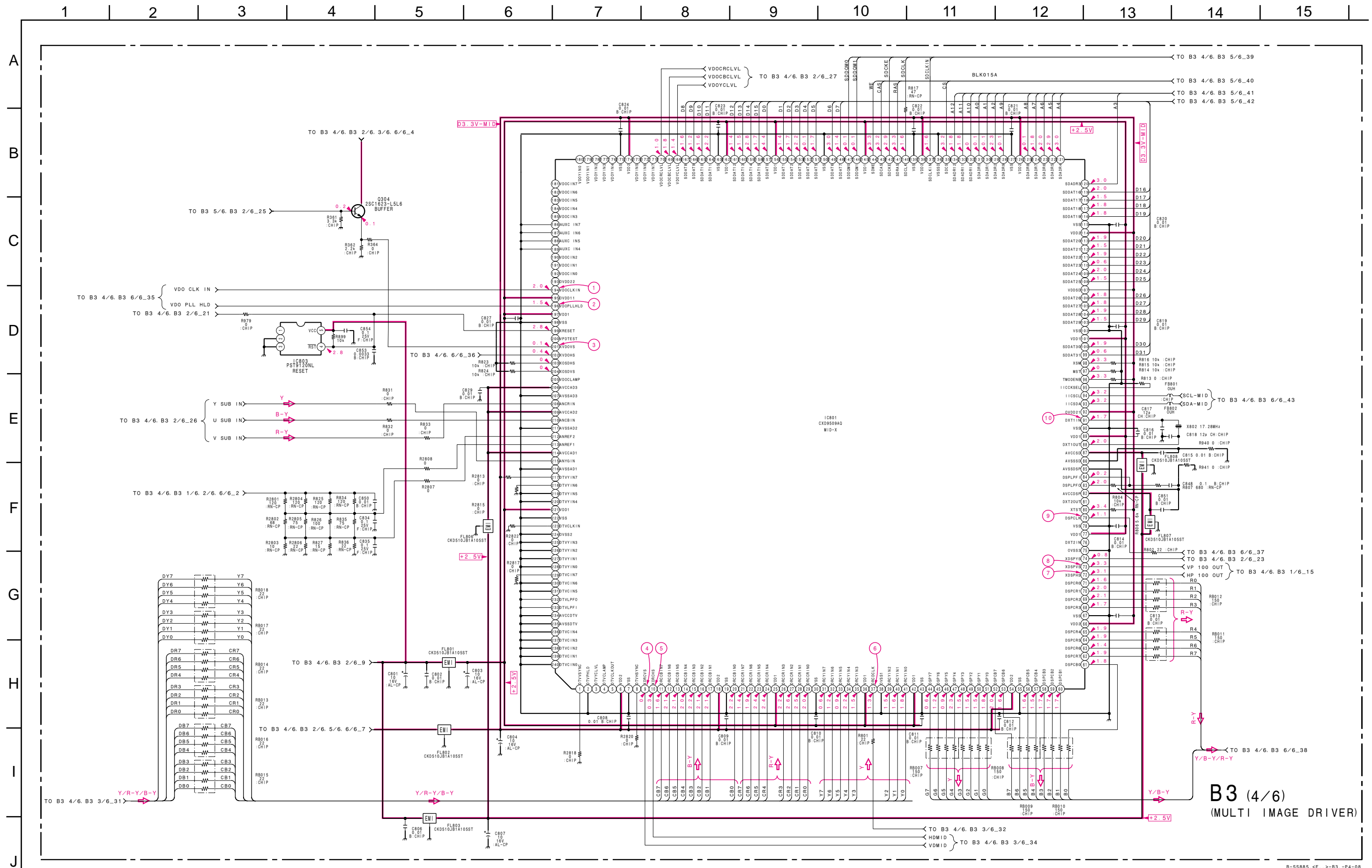
B-SS885. <E...>-B3.-P1-08

(6) Schematic Diagram of B3(2/6) Board

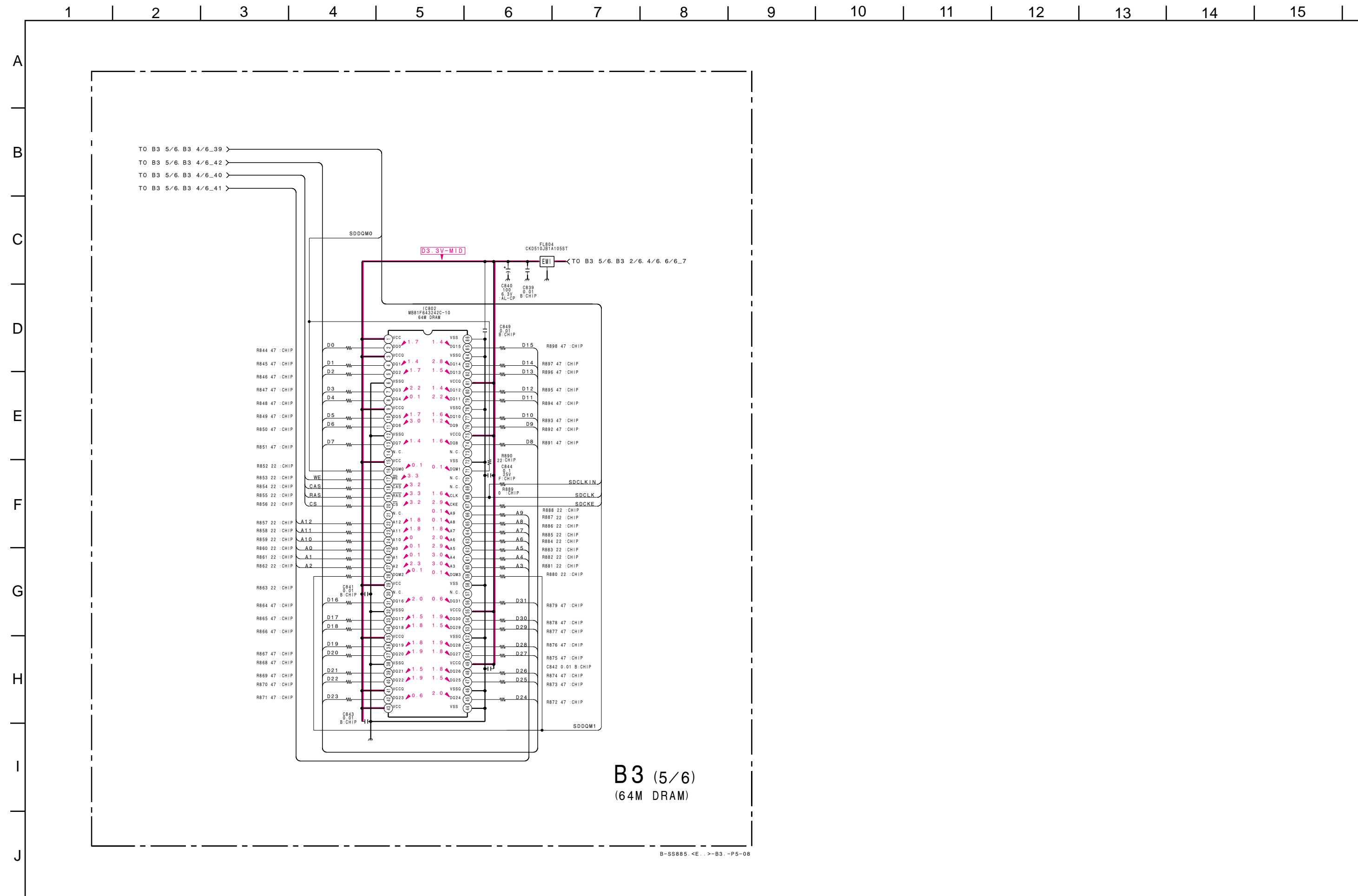




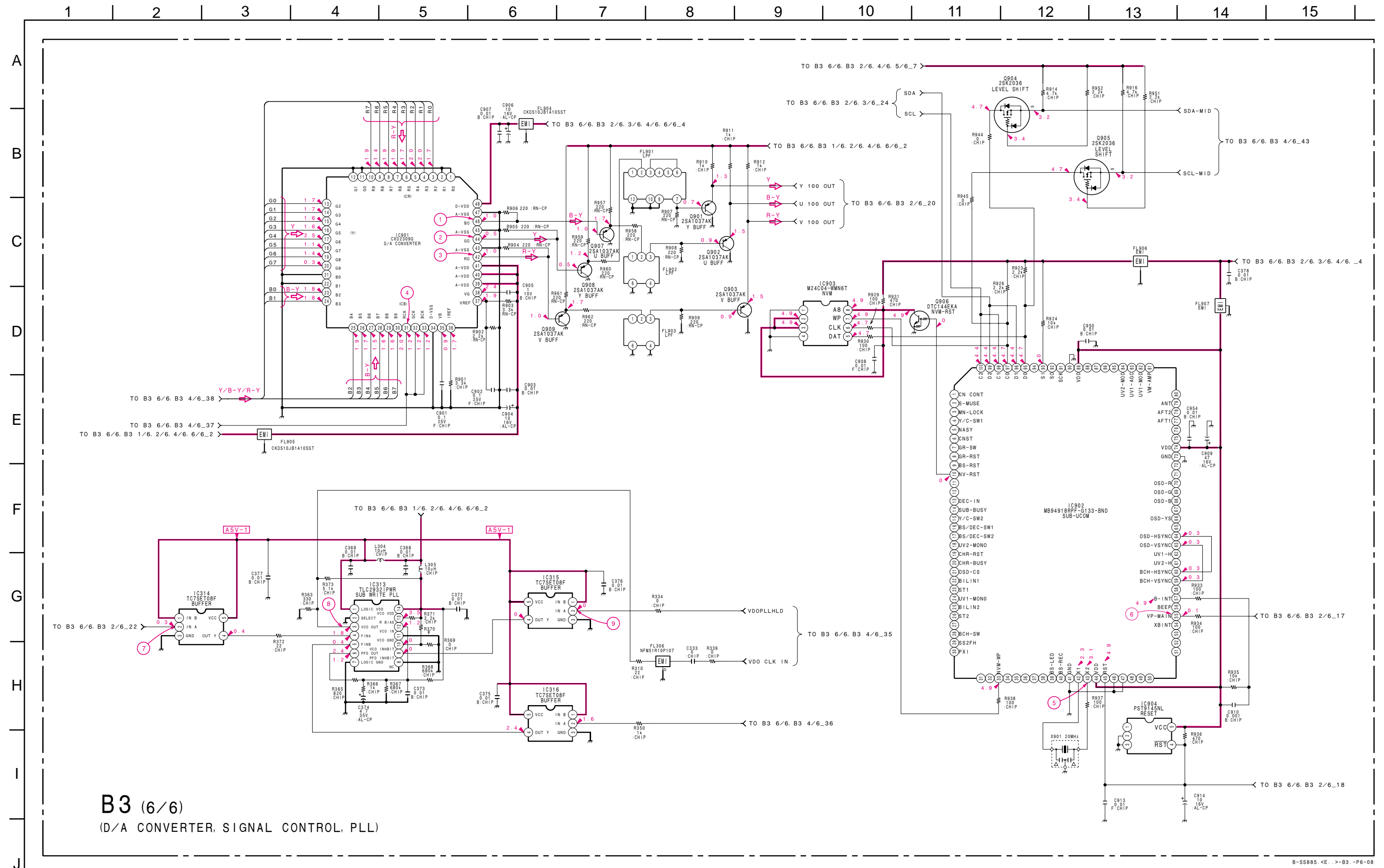
(8) Schematic Diagram of B3 (4/6) Board



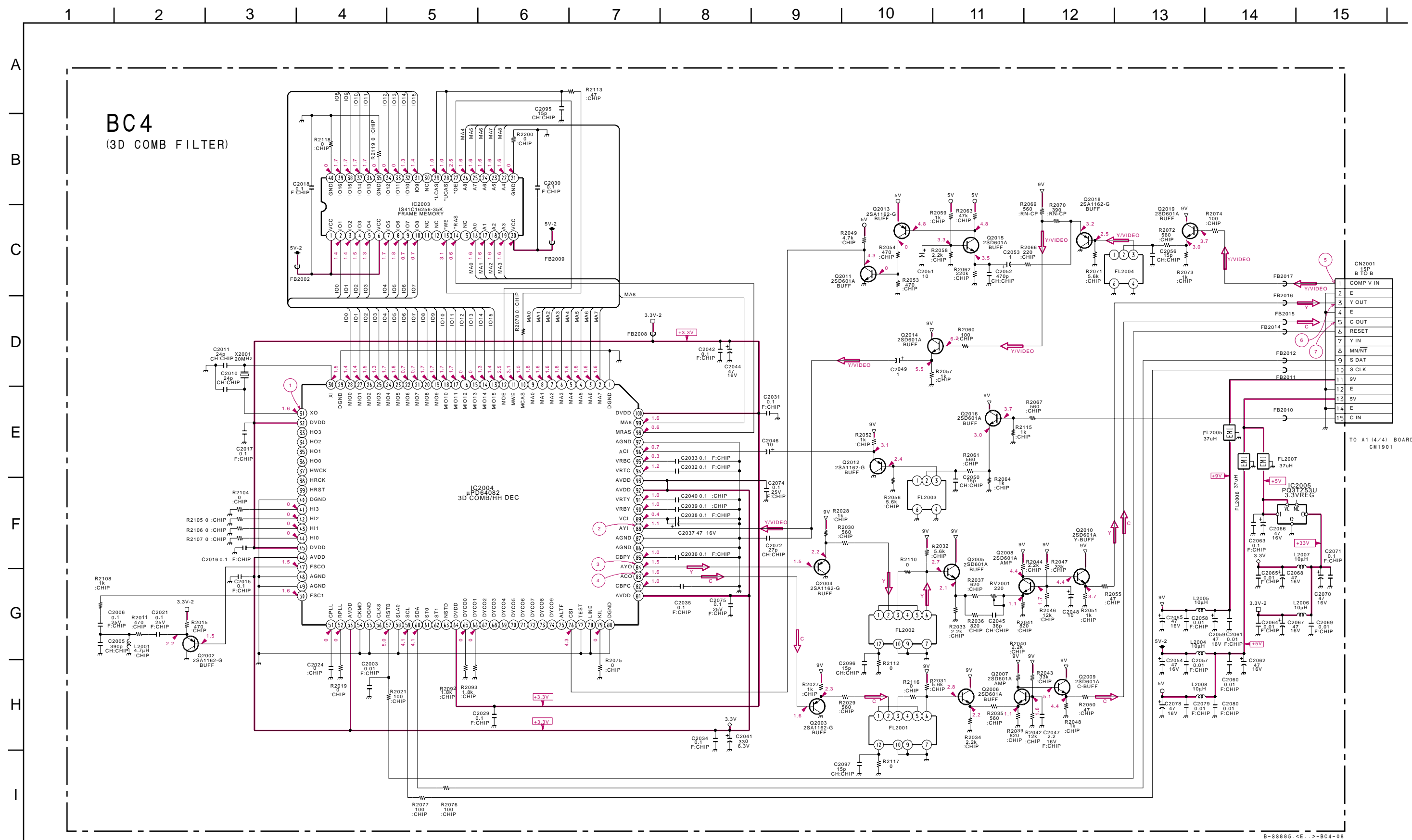
(9) Schematic Diagram of B3 (5/6) Board



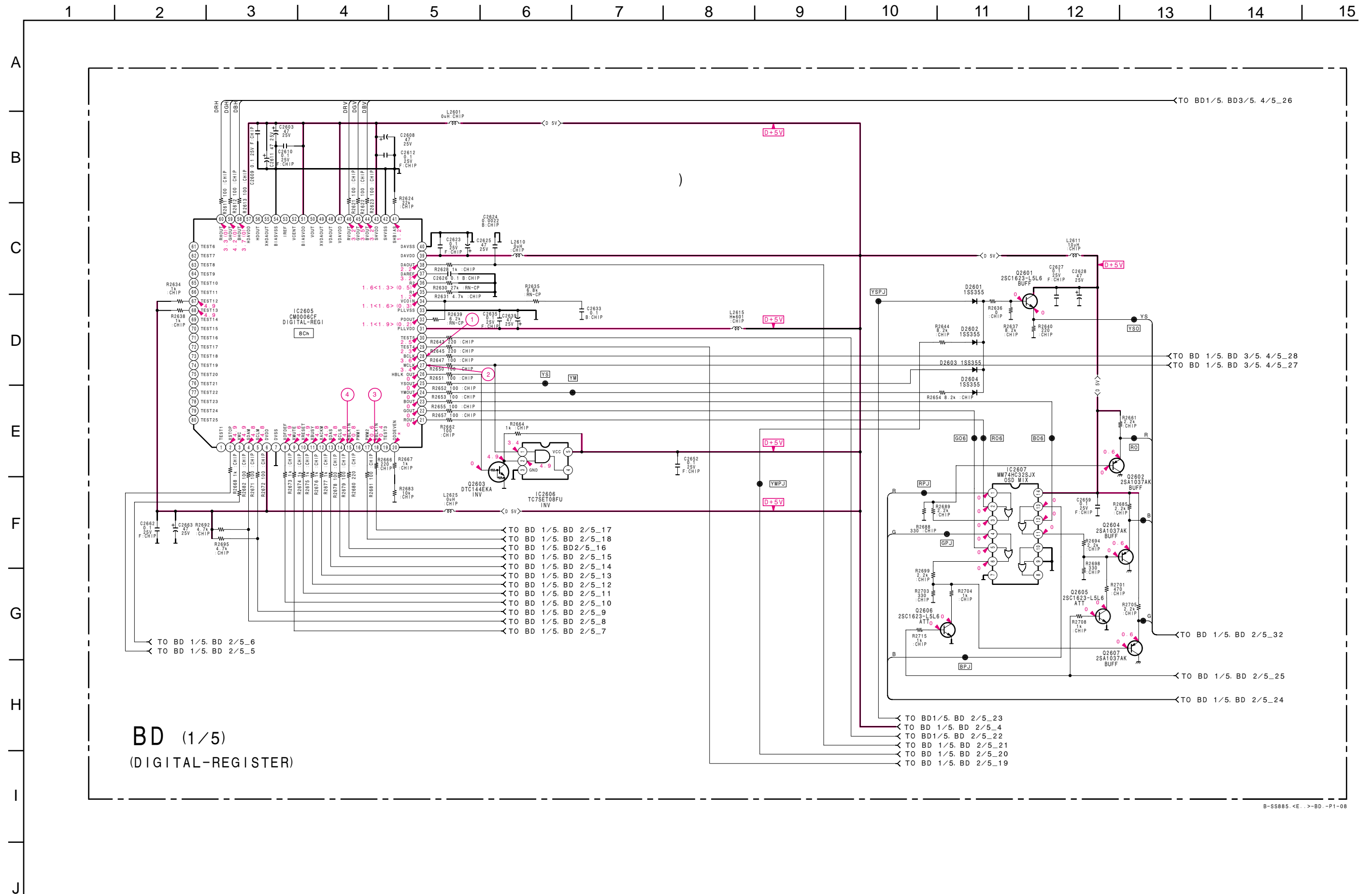
(10) Schematic Diagram of B3 (6/6) Board



(11) Schematic Diagram of BC4 Board

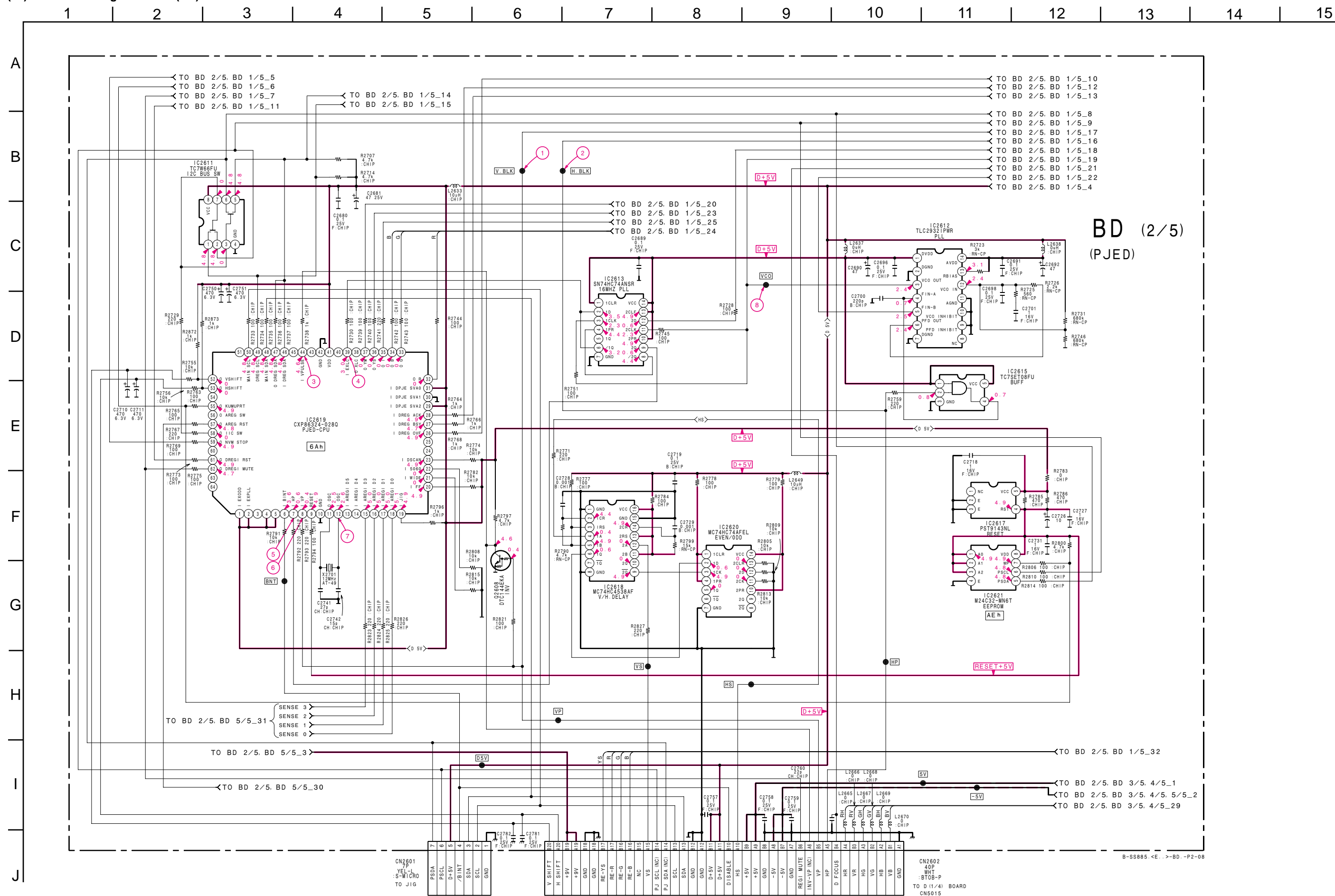


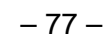
(12) Schematic Diagram of BD (1/5) Board



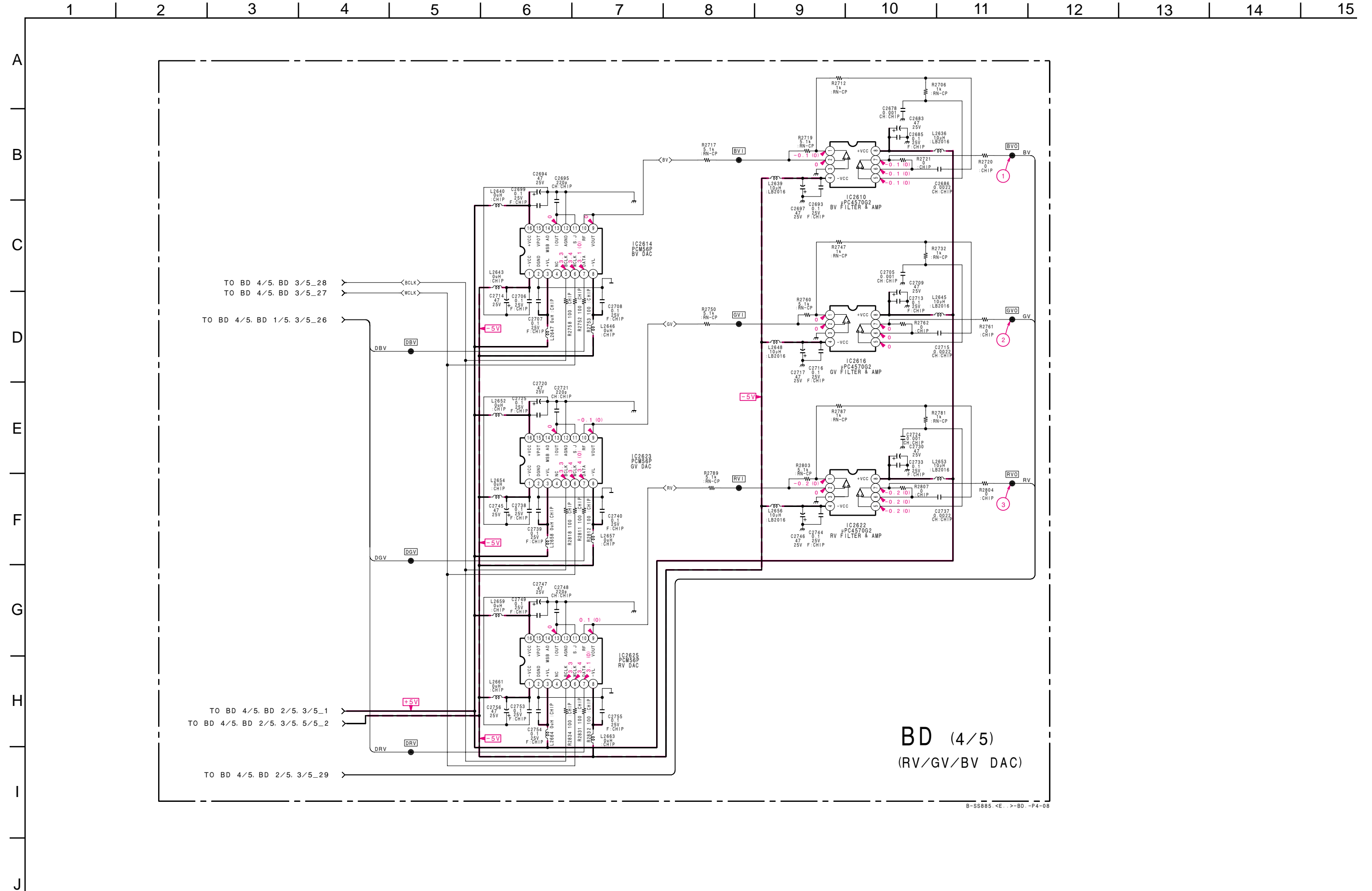
B-SS885, <E> -P1-08

(13) Schematic Diagram of BD (2/5) Board



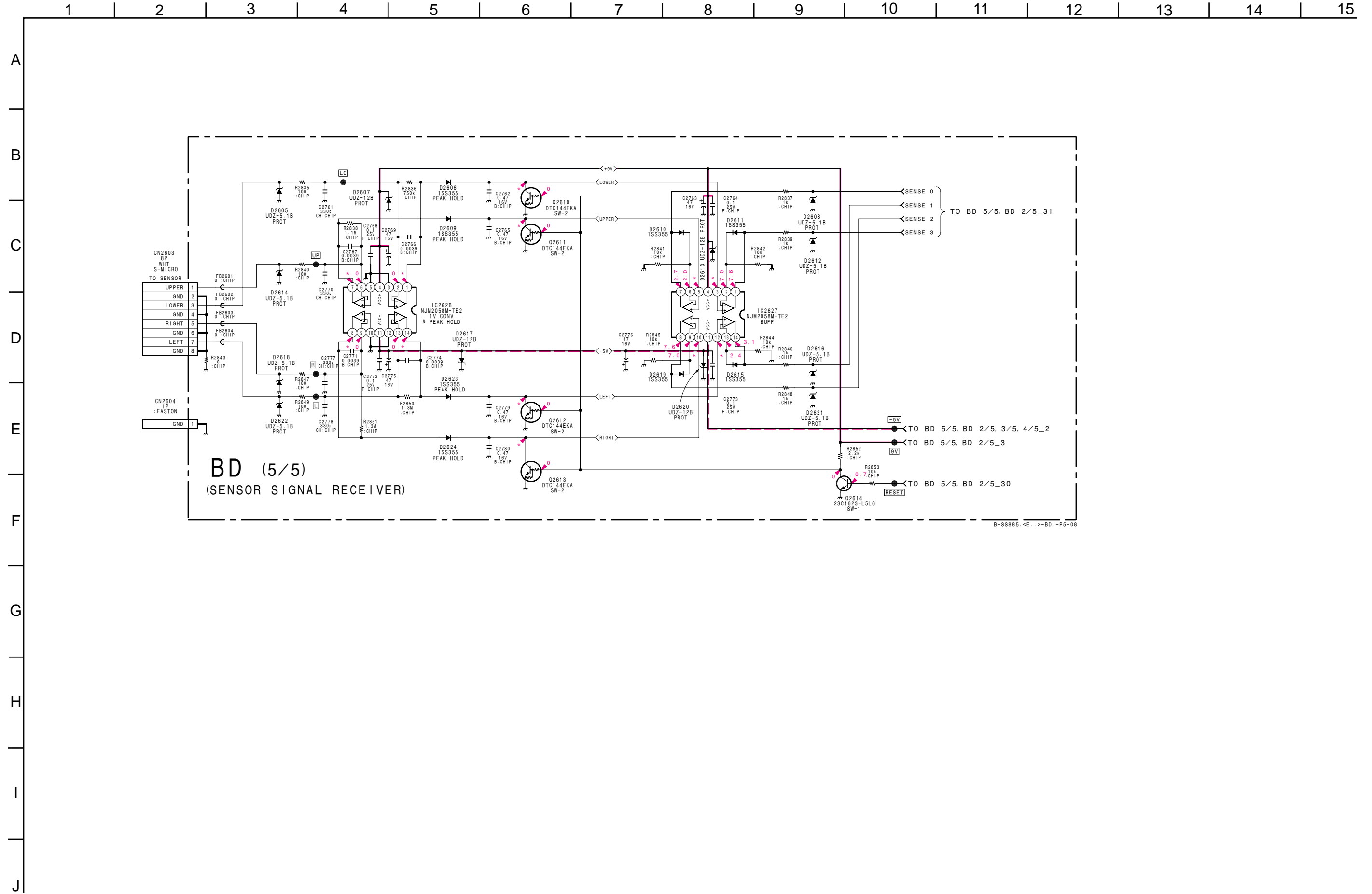


(15) Schematic Diagram of BD (4/5) Board

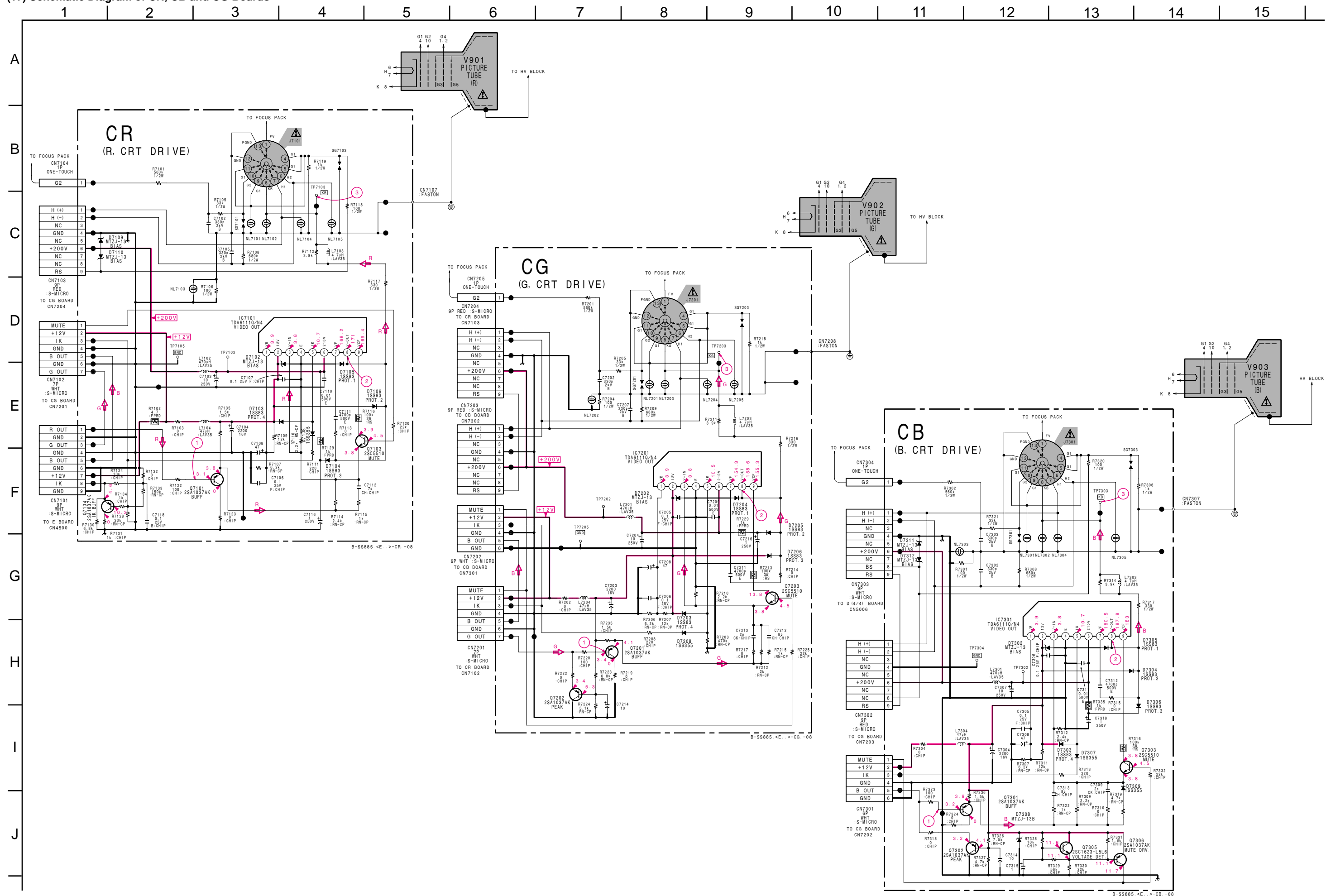


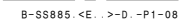
B-S8885.<E...>-BD.-P4-08

(16) Schematic Diagram of BD (5/5) Board

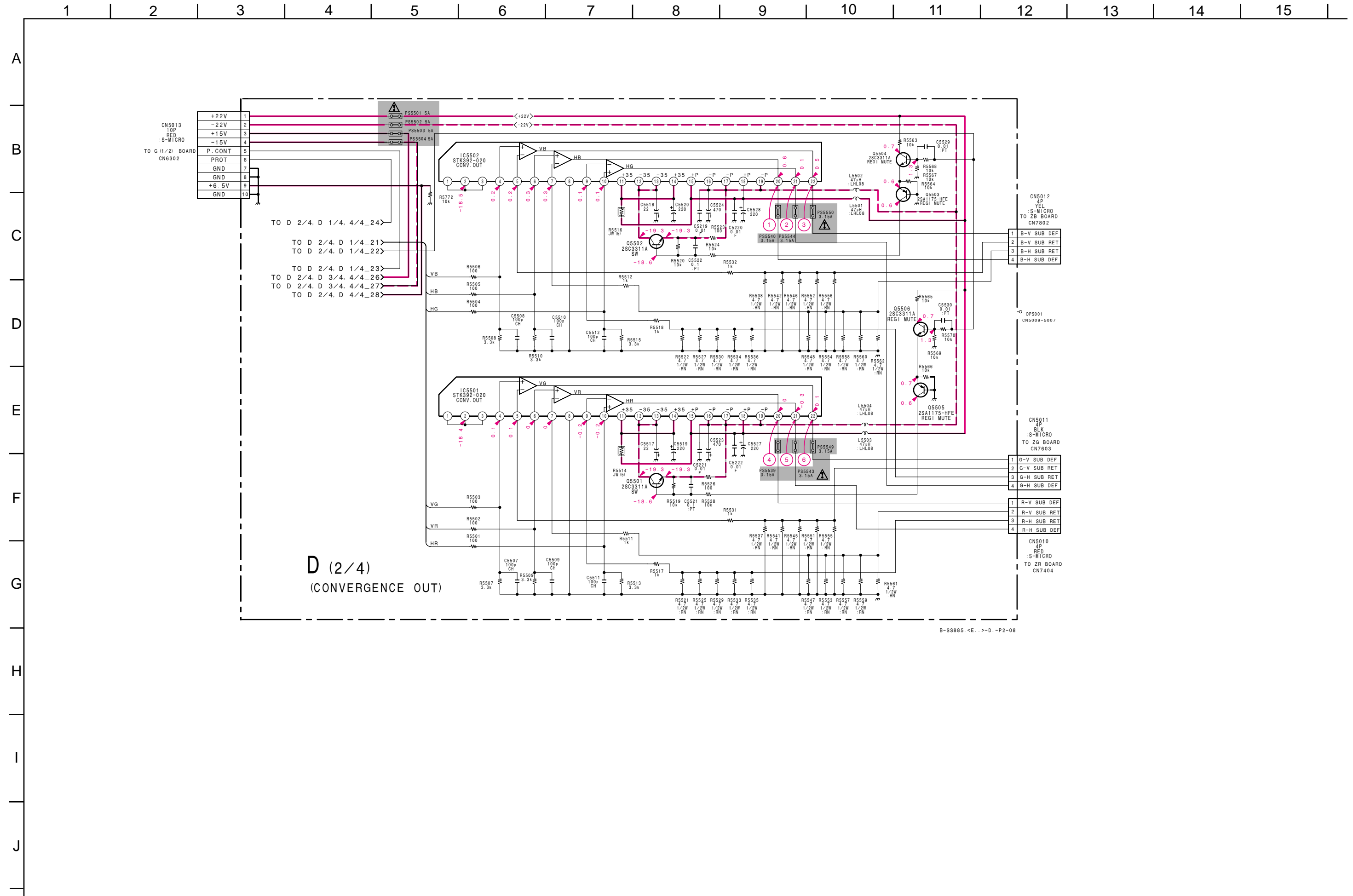


(17) Schematic Diagram of CR, CB and CG Boards

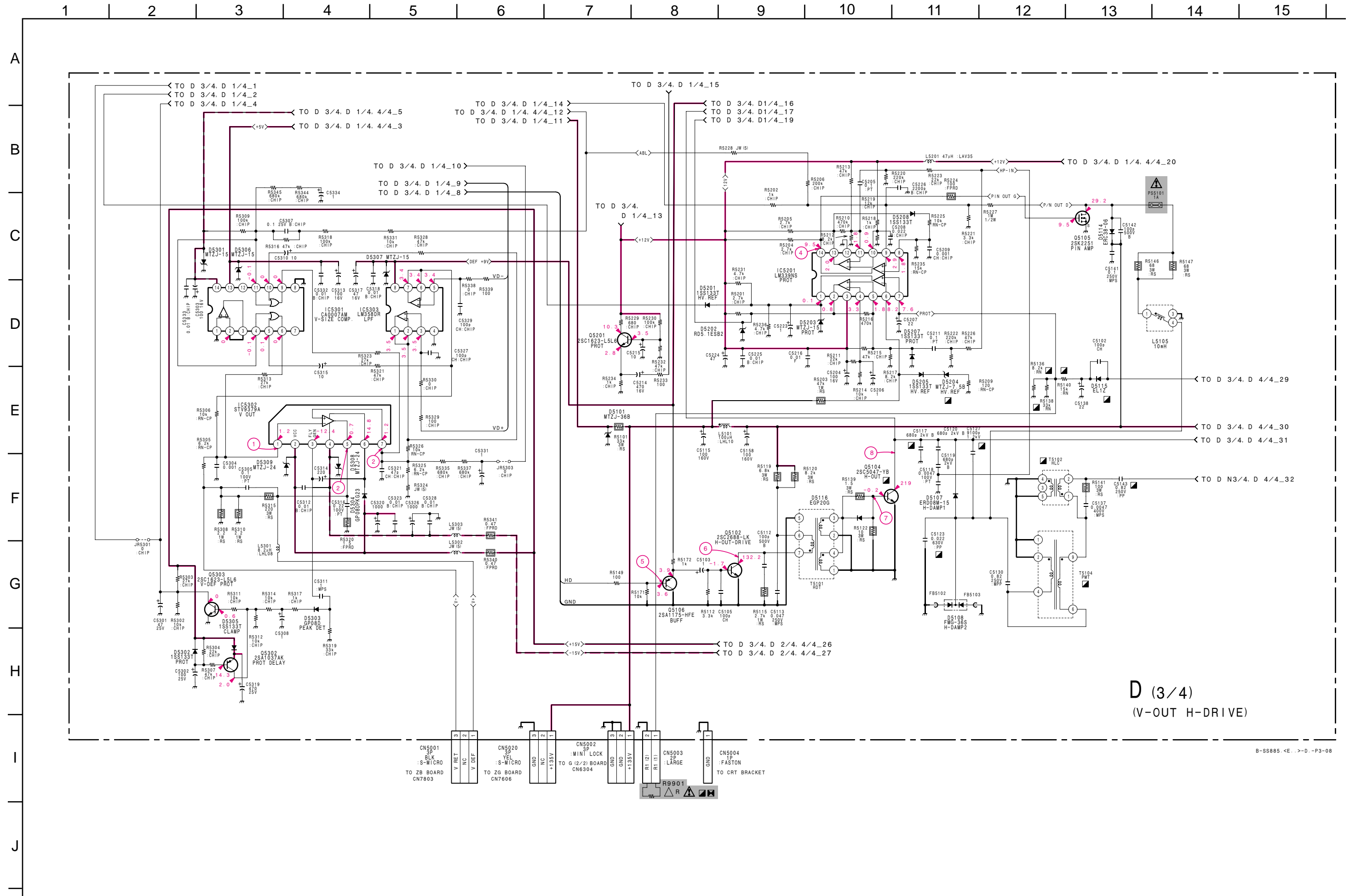




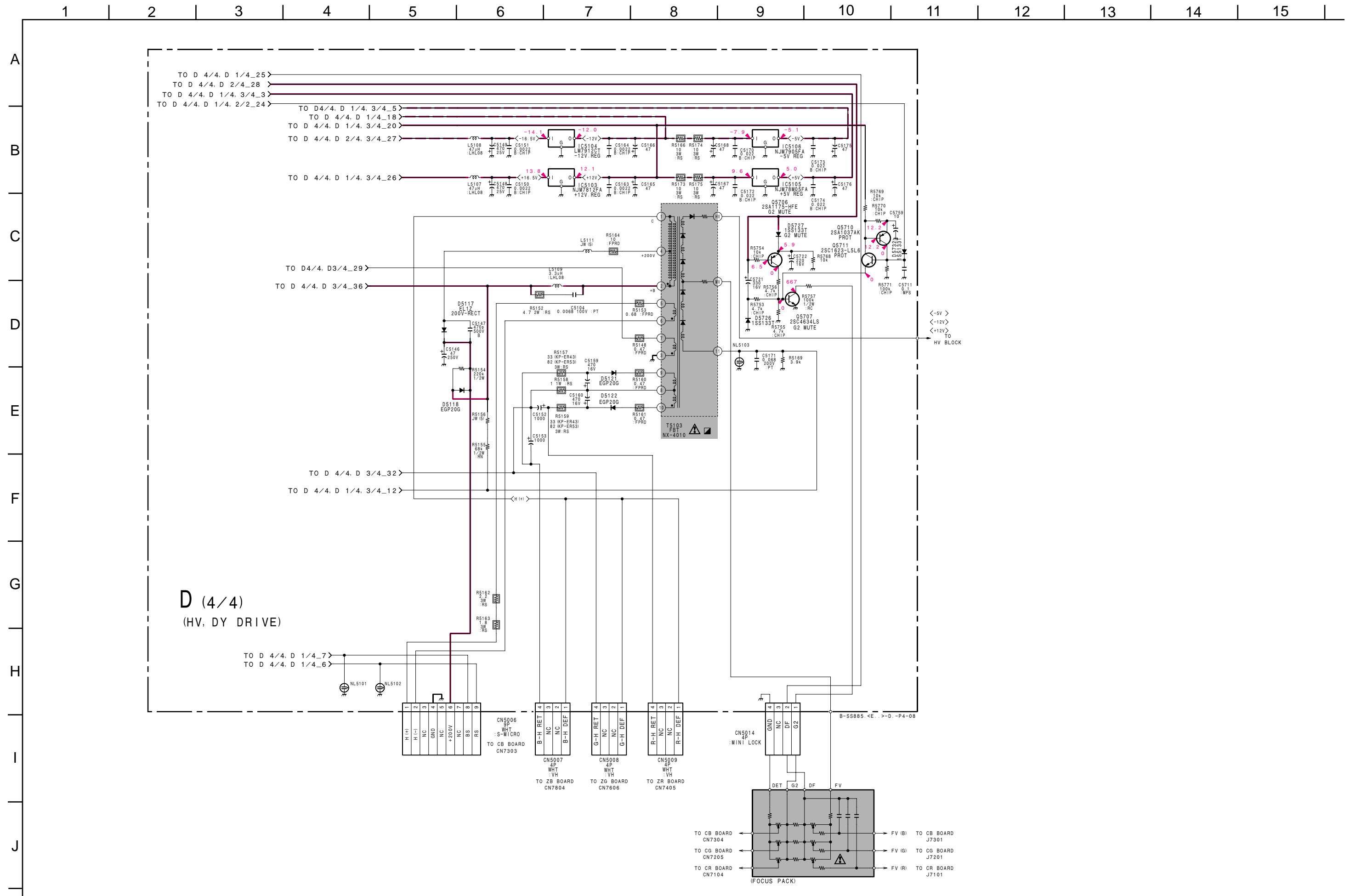
(19) Schematic Diagram of D(2/4) Board



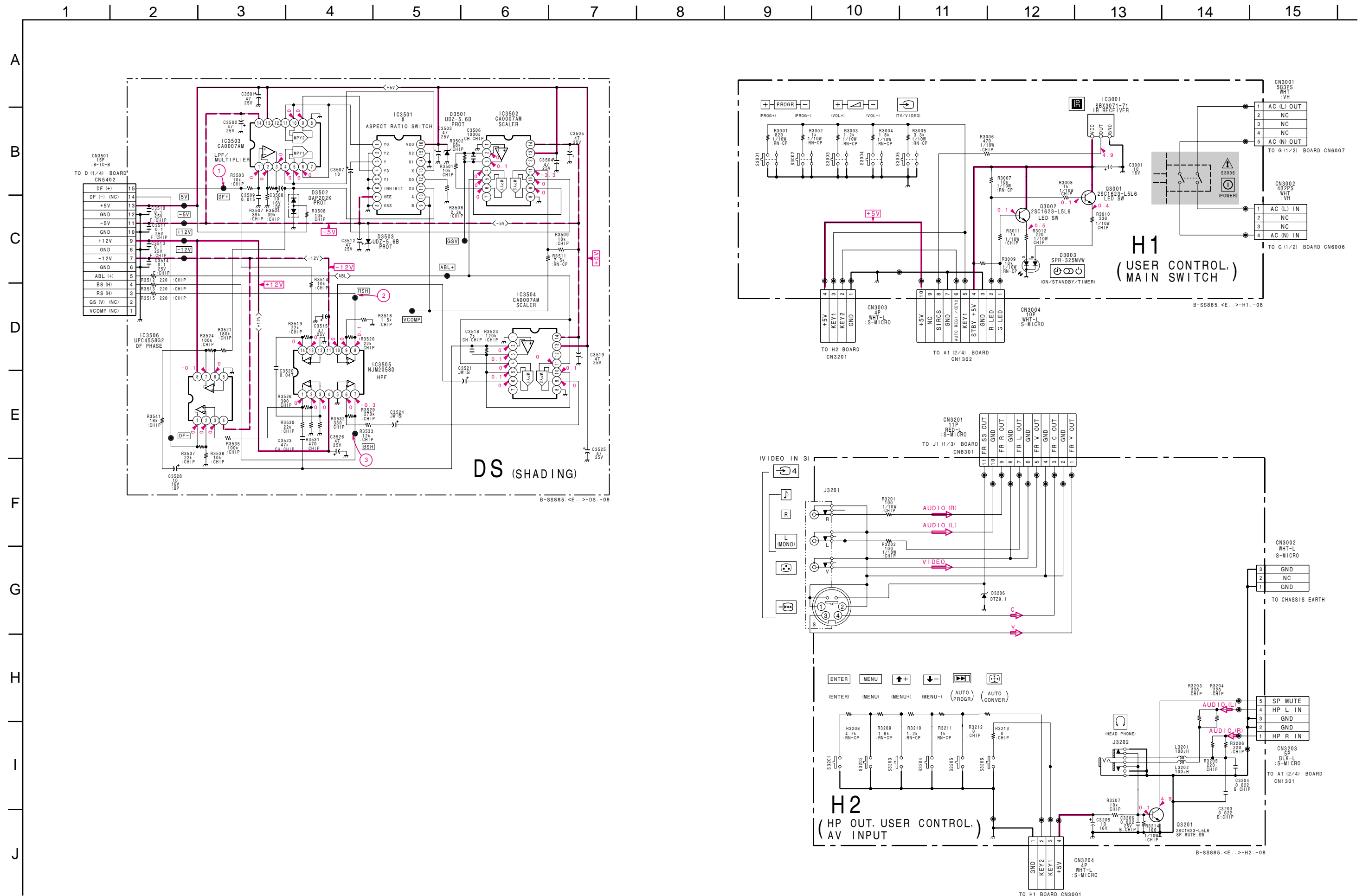
(20) Schematic Diagram of D(3/4) Board

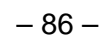


(21) Schematic Diagram of D(4/4) Board

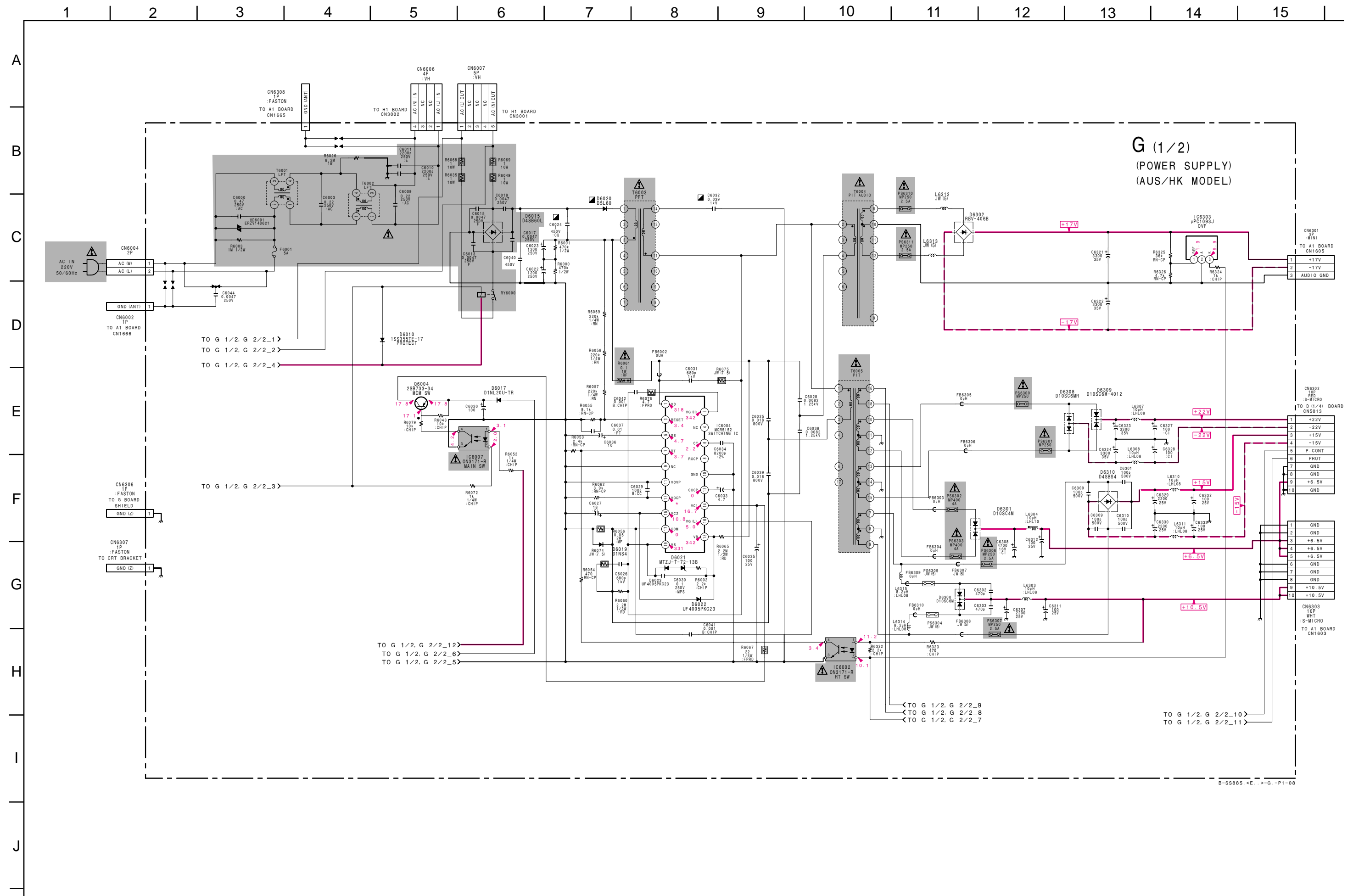


(22) Schematic Diagram of DS, H1 and H2 Boards

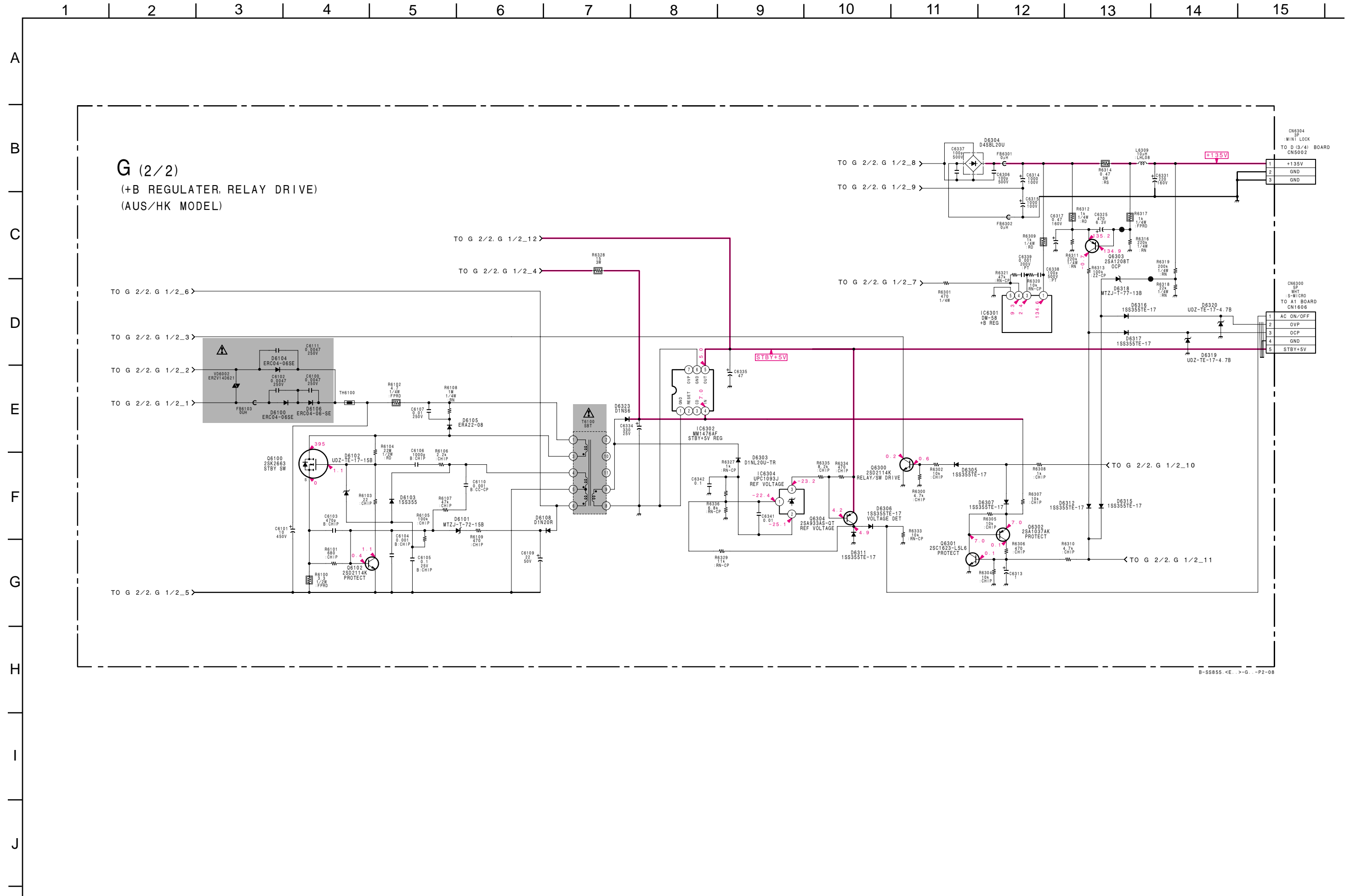




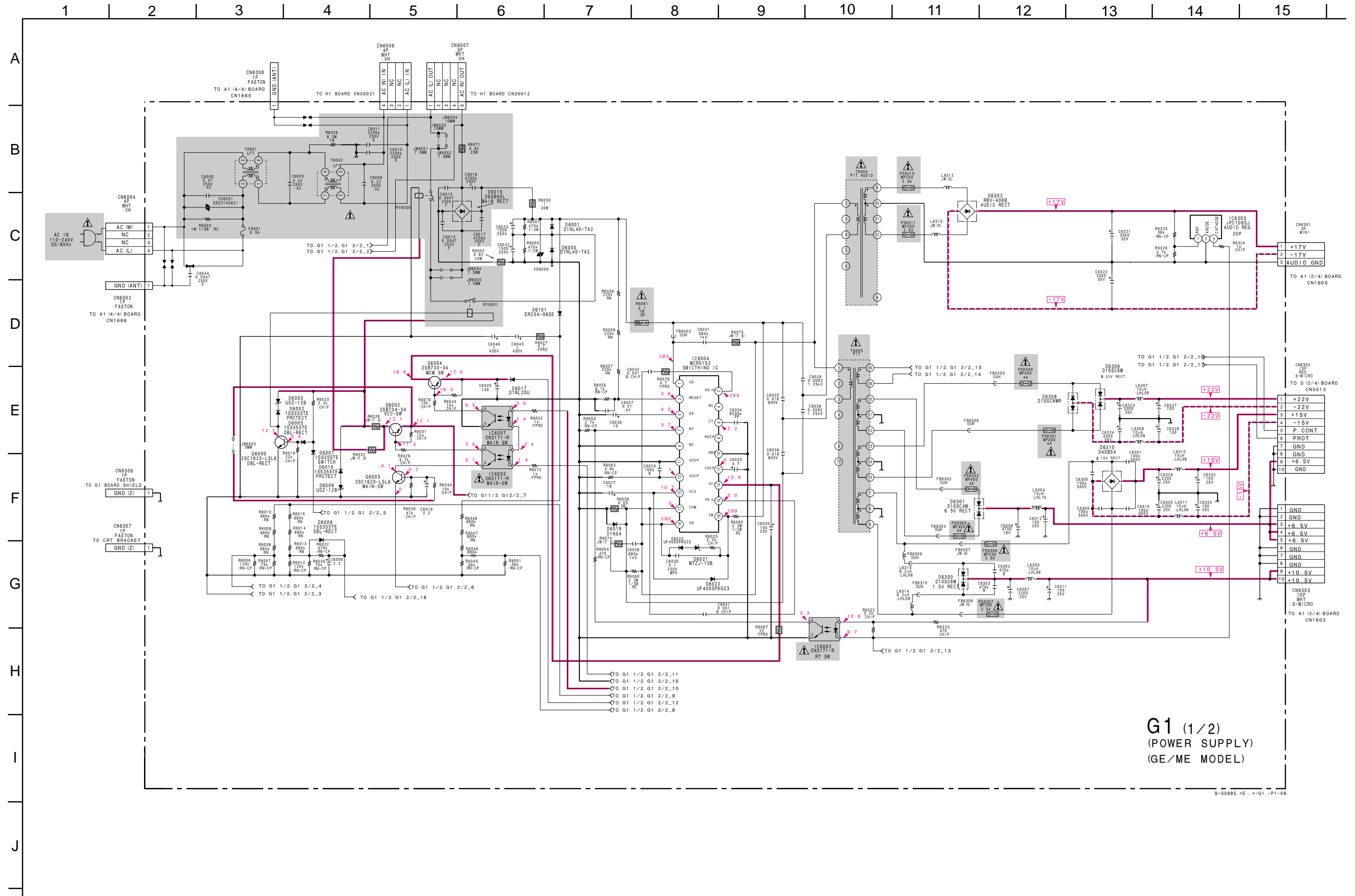
(24) Schematic Diagram of G(1/2) Board



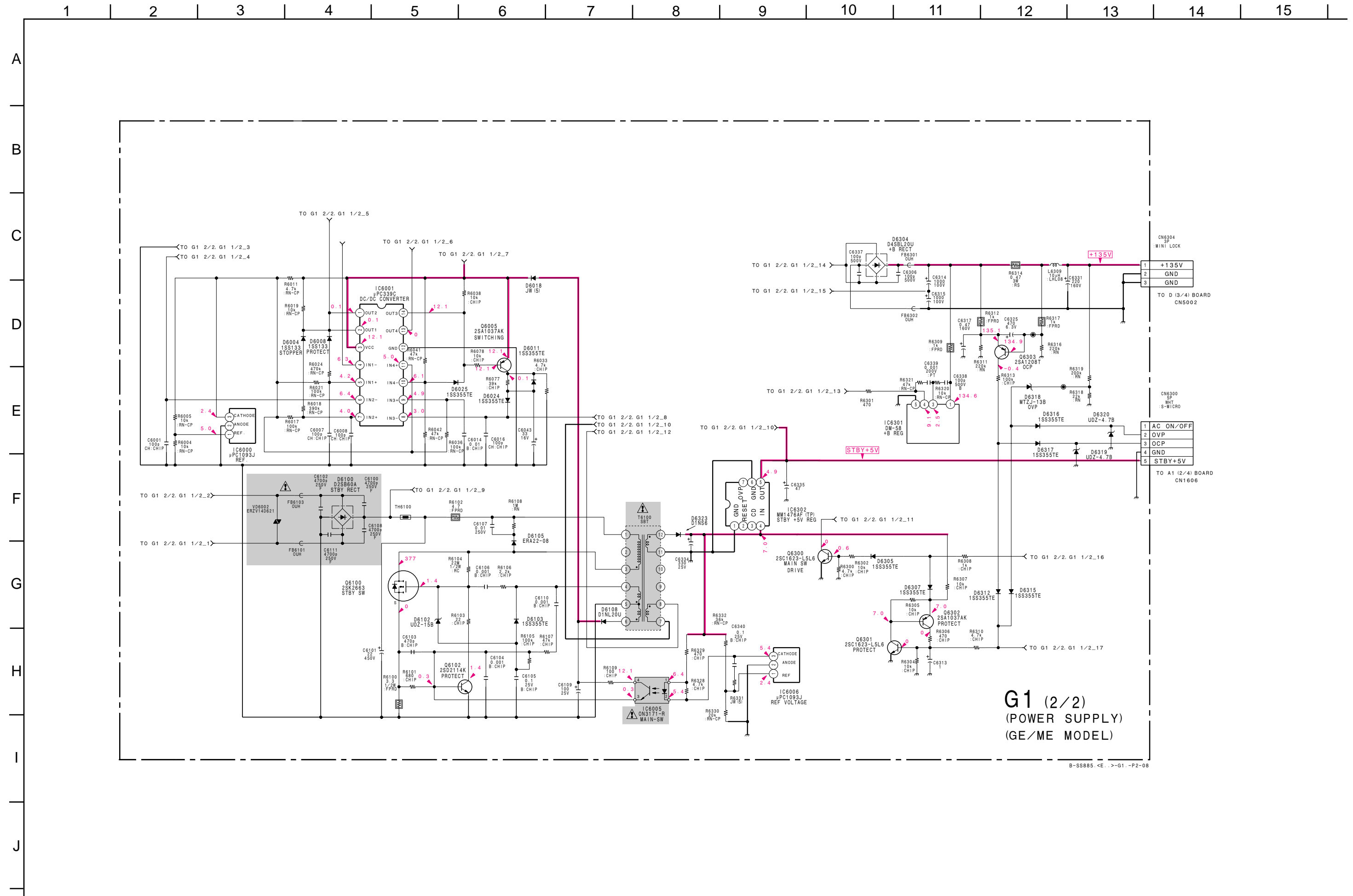
(25) Schematic Diagram of G(2/2) Board



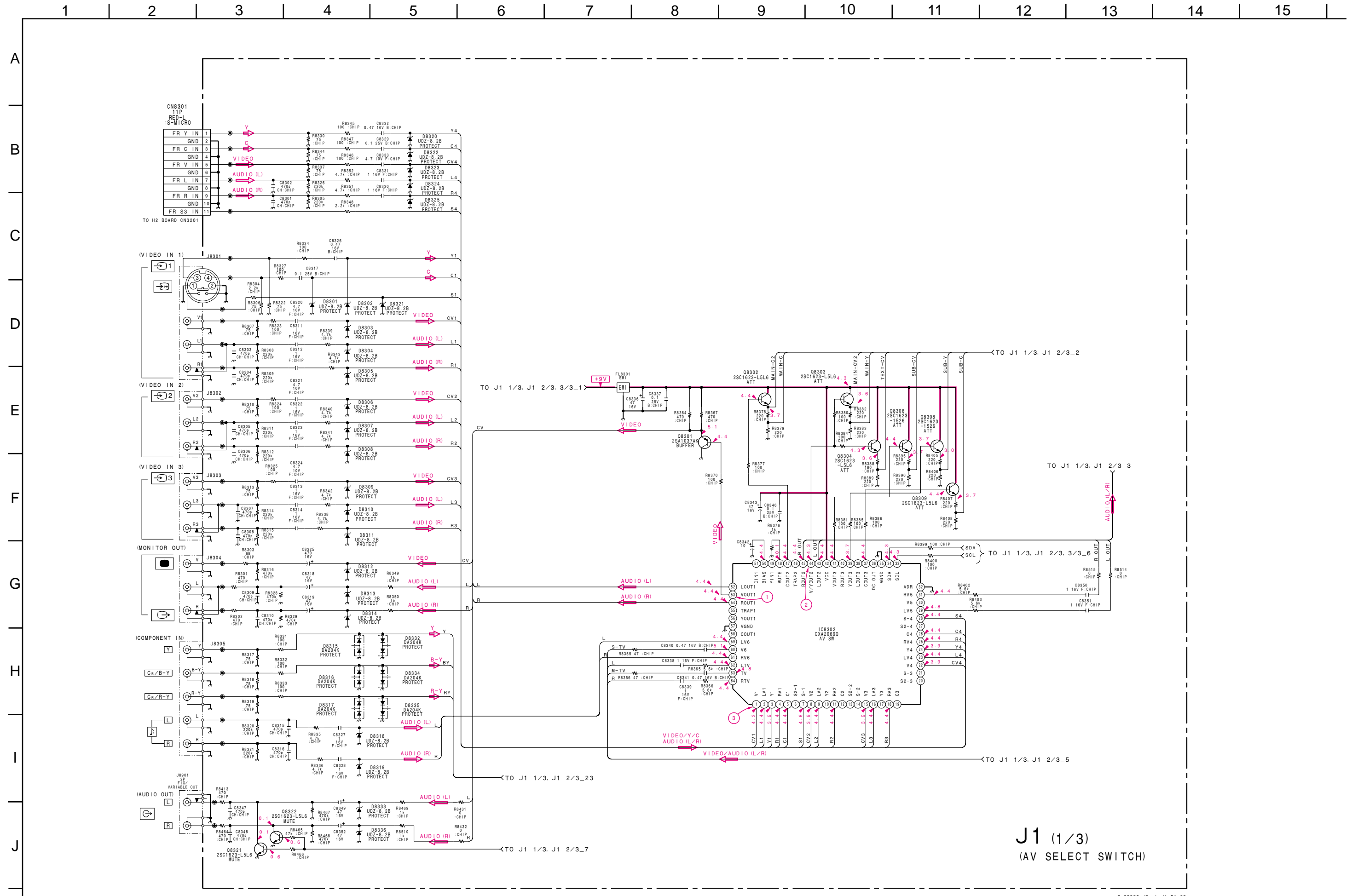
(26) Schematic Diagram of G1(2/2) Board



(27) Schematic Diagram of G1(2/2) Board

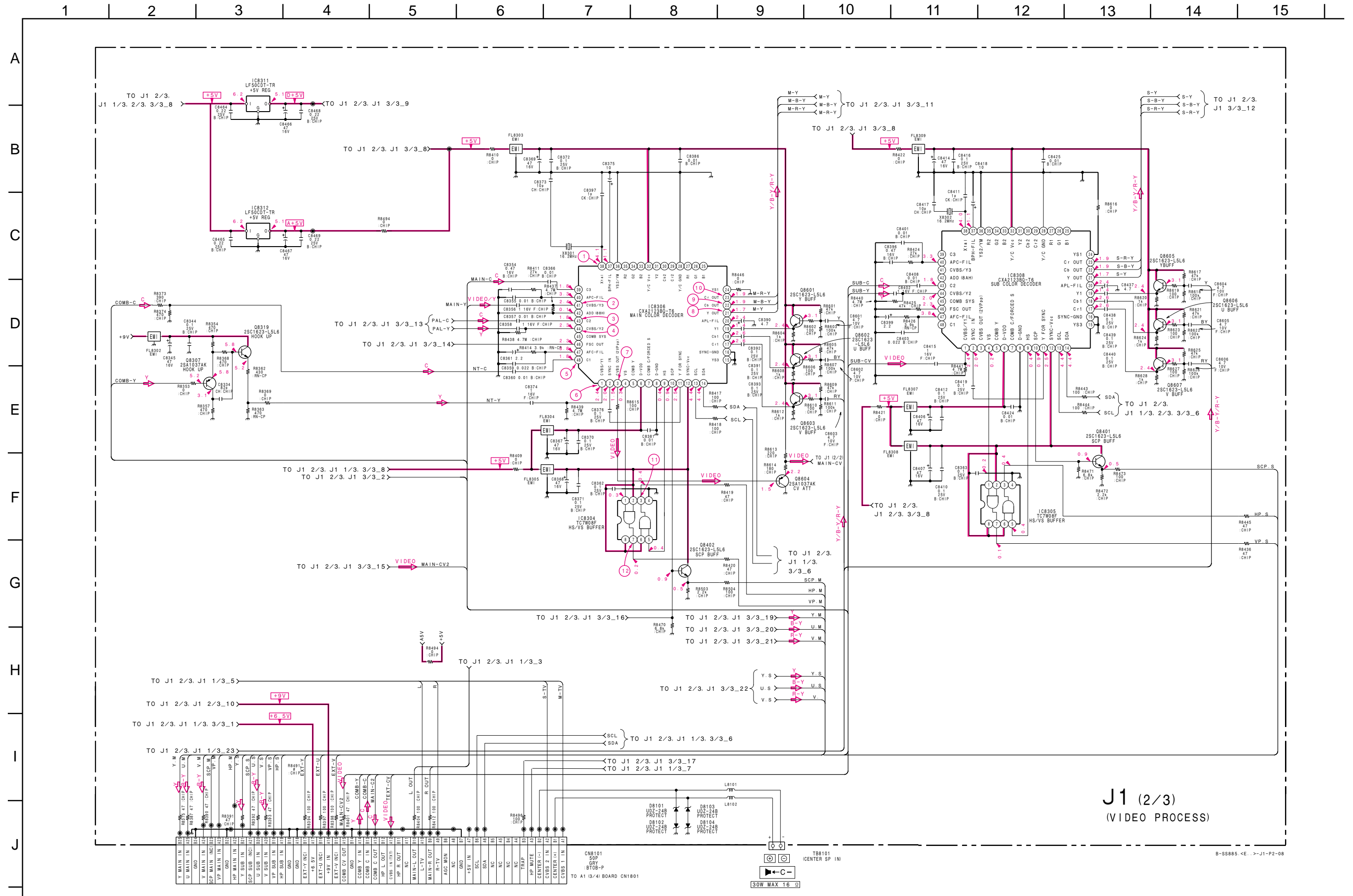


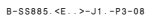
(28) Schematic Diagram of J1 (1/3) Board



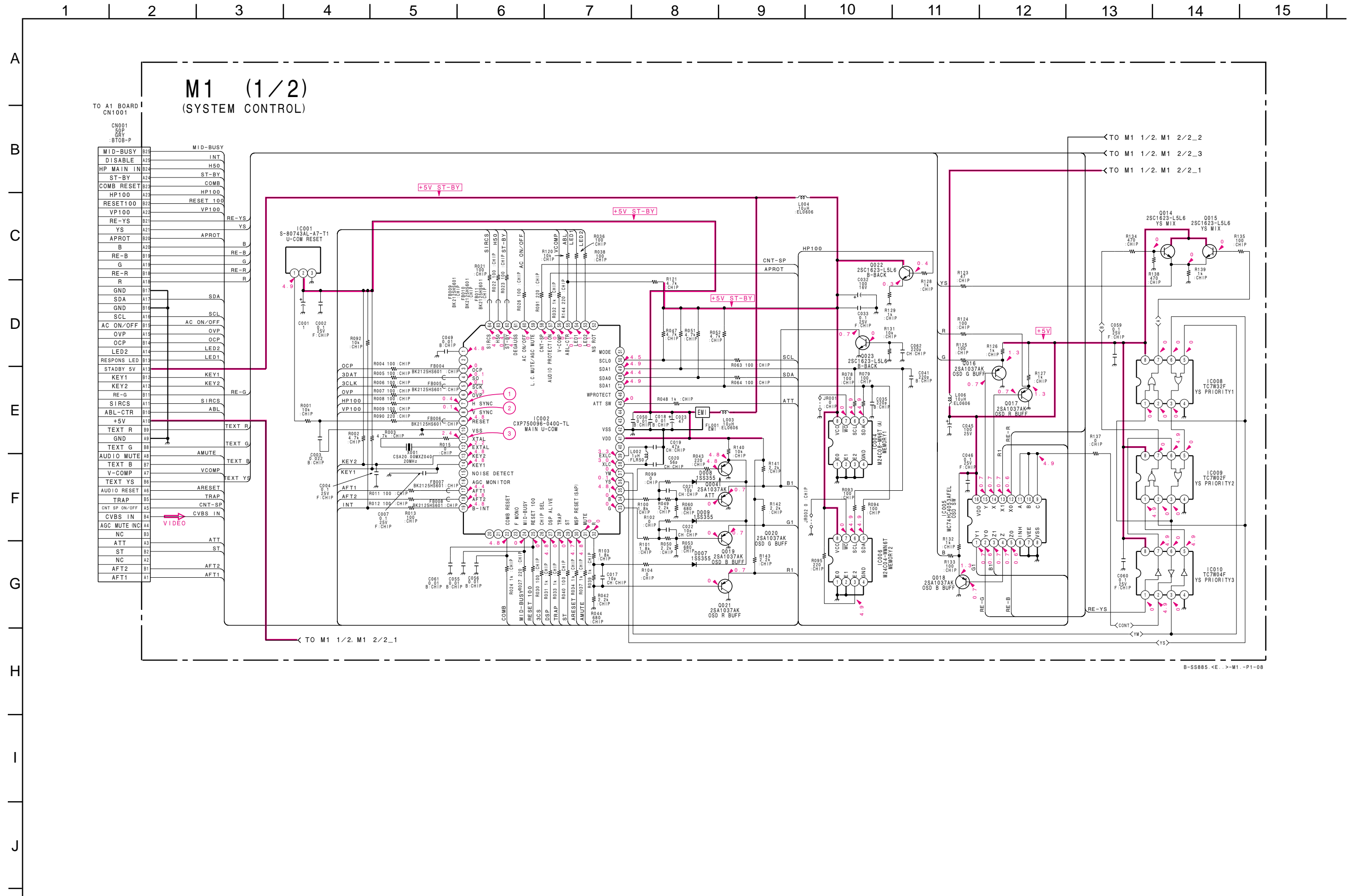
J1 (1/3)
(AV SELECT SWITCH)

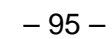
(29) Schematic Diagram of J1(2/3) Board



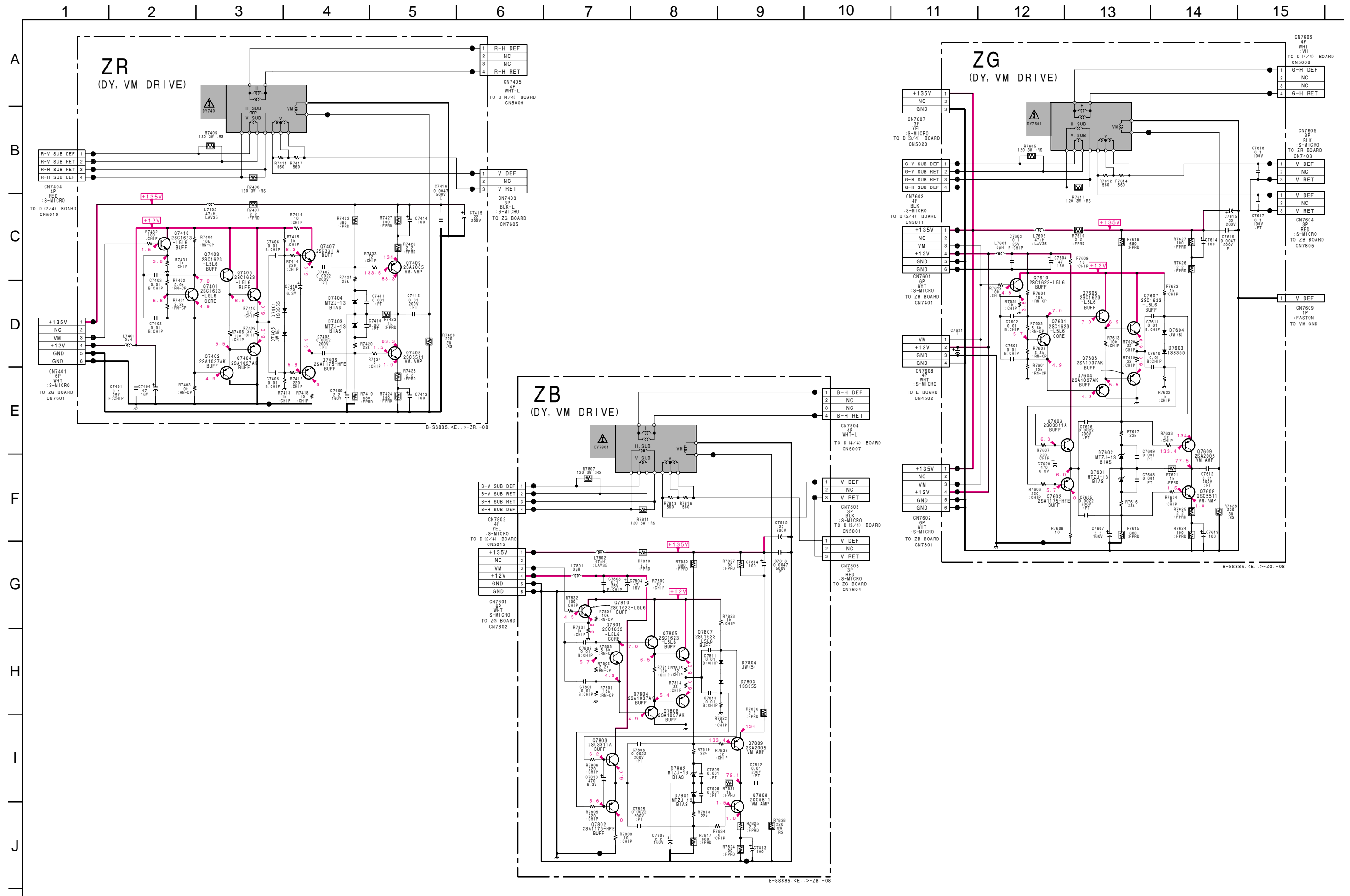


(31) Schematic Diagram of M1(1/2) Board

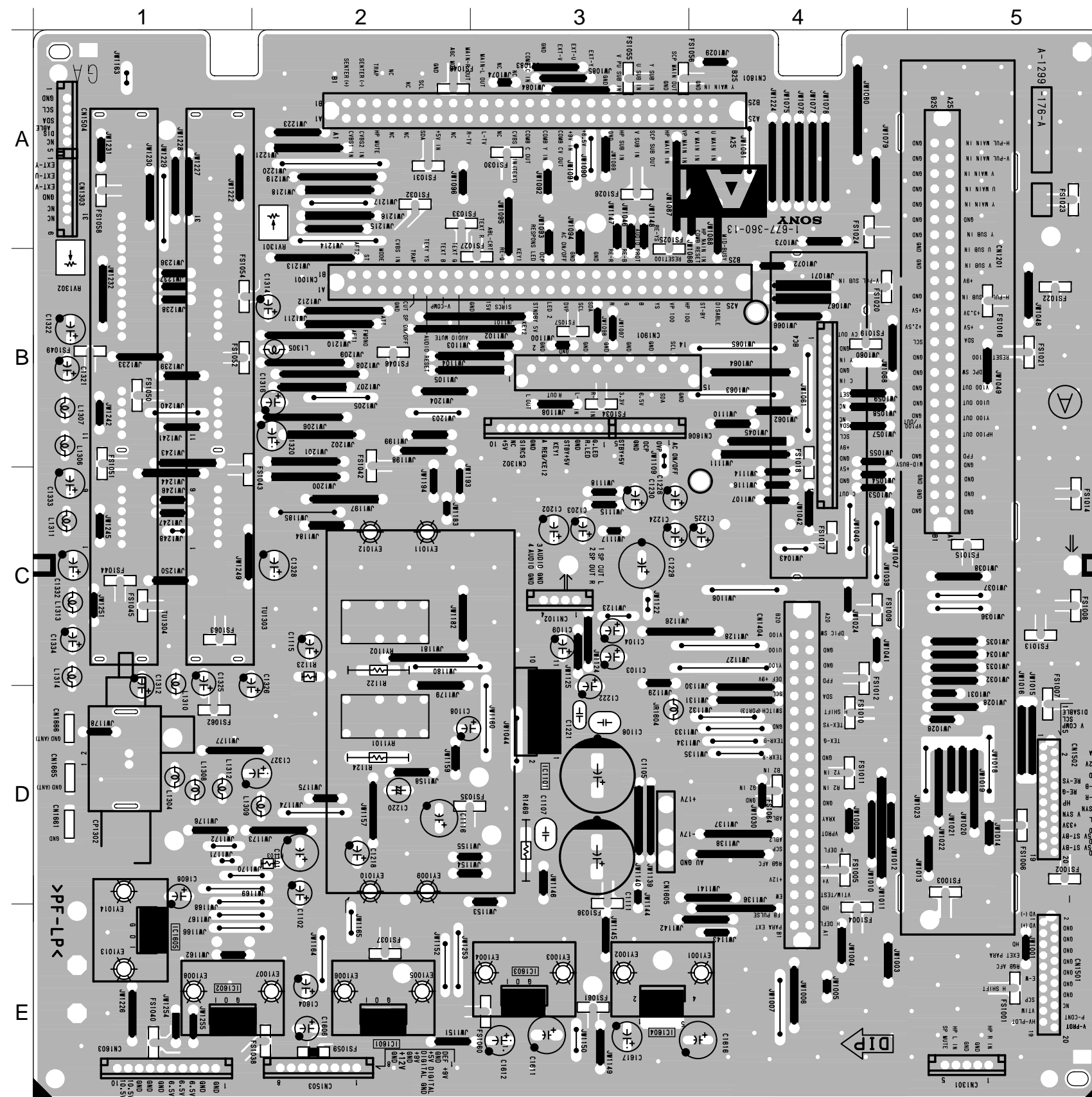




(33) Schematic Diagram of ZR, ZB and ZG Boards



— A1 BOARD (COMPONENT SIDE) —

[illegible]

– 97 –

| IC | | | Q8323 | D-2 | ② | Q8601 | C-1 | ② | D8307 | B-2 | ③ |
|------------------|------------------|-----|-------|-----|-------|-------|---|-------|-------|-----|---|
| (Component Side) | (Conductor Side) | | Q8324 | D-2 | ② | Q8602 | C-1 | ② | D8308 | C-2 | ③ |
| IC8302 | A-1 | | Q8326 | D-2 | ① | Q8603 | C-1 <td>②</td> <td>D8309</td> <td>B-2</td> <td>③</td> | ② | D8309 | B-2 | ③ |
| IC8304 | | C-2 | Q8327 | D-2 | ① | Q8604 | C-1 | ② | D8310 | B-2 | ③ |
| IC8305 | | C-1 | Q8328 | D-2 | ① | Q8605 | C-2 | ② | D8311 | B-2 | ③ |
| IC8306 | C-1 | | Q8332 | D-2 | ② | Q8606 | C-2 | ② | D8312 | A-2 | ③ |
| IC8308 | C-2 | | Q8338 | D-2 | ① | Q8607 | C-2 | ② | D8313 | A-2 | ③ |
| IC8309 | D-1 | | Q8340 | D-1 | ② | Q8801 | C-2 | ② | D8314 | A-2 | ③ |
| IC8310 | D-1 | | Q8401 | C-1 | ② | Q8802 | C-2 | ② | D8315 | B-2 | ④ |
| IC8311 | D-1 | | Q8402 | C-2 | ① | Q8803 | | D-2 ① | D8316 | B-2 | ④ |
| IC8312 | E-2 | | Q8405 | D-2 | ① | Q8804 | | D-1 ① | D8317 | B-2 | ④ |
| IC8801 | C-2 | | Q8406 | D-2 | ① | Q8805 | D-2 | ② | D8318 | B-2 | ③ |
| | | | Q8407 | D-2 | ① | Q8807 | D-2 | ② | D8319 | B-2 | ③ |
| | | | Q8408 | D-2 | ① | Q8808 | D-2 | ② | D8320 | A-2 | ③ |
| | | | Q8409 | E-1 | ② | Q8809 | D-2 | ② | D8321 | A-2 | ③ |
| | | | Q8410 | E-1 | ② | Q8810 | C-2 | ② | D8322 | A-2 | ③ |
| | | | Q8411 | E-1 | ② | Q8811 | C-2 | ② | D8323 | A-1 | ③ |
| | | | Q8412 | E-1 | ② | | | | D8324 | A-2 | ③ |
| | | | Q8413 | E-1 | ② | | | | D8325 | A-2 | ③ |
| | | | Q8414 | E-1 | ② | | | | D8331 | D-2 | ③ |
| | | | Q8415 | E-1 | ② | | | | D8332 | B-1 | ④ |
| | | | Q8416 | E-1 | — | | | | D8333 | B-1 | ③ |
| | | | Q8417 | E-1 | — | D8101 | A-1 | ③ | D8334 | B-1 | ④ |
| | | | Q8418 | E-1 | — | D8102 | A-1 | ③ | D8335 | B-2 | ④ |
| | | | Q8419 | D-2 | — | D8103 | A-1 | ③ | D8336 | B-1 | ③ |
| | | | Q8420 | E-2 | ② | D8104 | A-1 | ③ | D8337 | D-2 | ③ |
| | | | Q8421 | | D-1 ① | D8301 | A-2 | ③ | | | |
| | | | Q8422 | E-2 | ② | D8302 | B-2 | ③ | | | |
| | | | Q8423 | | D-1 ① | D8303 | B-2 | ③ | | | |
| | | | Q8424 | E-2 | ② | D8304 | B-2 | ③ | | | |
| | | | Q8425 | | D-2 ① | D8305 | C-2 | ③ | | | |
| | | | Q8426 | | D-2 ① | D8306 | B-2 | ③ | | | |

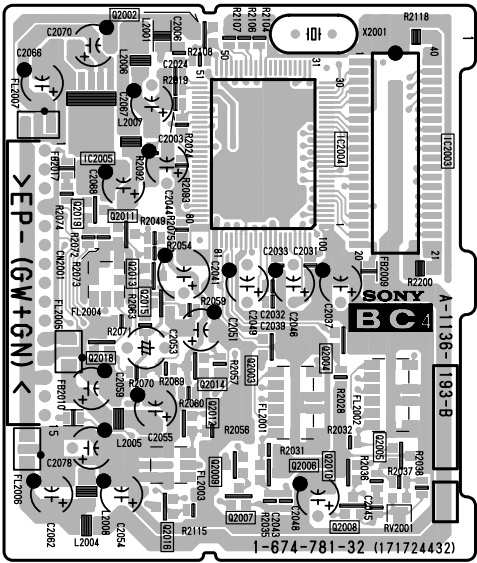
– 98 –

| IC | | TRANSISTOR | | | | | | | |
|---------------------|--------------------|---------------------|--------------------|---|--|------------------------------------|-----|---|--|
| (Component Side) | (Conducto Side) | (Component Side) | (Conducto Side) | * | | | | | |
| IC313 | A-4 | Q304 | B-2 | ① | | Q602 | A-4 | ① | |
| IC314 | A-4 | Q501 | B-1 | ② | | Q901 | B-3 | ① | |
| IC315 | A-4 | Q502 | B-1 | ② | | Q902 | B-3 | ① | |
| IC316 | A-4 | Q503 | B-1 | ② | | Q903 | B-3 | ① | |
| IC501 | B-1 | Q510 | B-1 | ② | | Q904 | A-1 | ⑩ | |
| IC504 | A-2 | Q511 | B-1 | ② | | Q905 | A-1 | ⑩ | |
| IC505 | B-3 | Q512 | B-1 | ② | | Q906 | A-1 | ② | |
| IC506 | B-2 | Q513 | B-4 | ① | | Q907 | B-2 | ② | |
| IC601 | A-1 | Q514 | B-4 | ① | | Q908 | B-2 | ② | |
| IC602 | B-1 | Q515 | B-4 | ① | | Q909 | B-2 | ② | |
| IC603 | A-1 | Q516 | B-3 | ① | | DIODE | | | |
| IC604 | B-3 | Q517 | A-3 | ① | | (Component Side) (Conducto Side) * | | | |
| IC801 | B-3 | Q518 | A-3 | ① | | D501 | B-3 | ③ | |
| IC802 | B-4 | Q519 | B-3 | ① | | D601 | A-2 | ③ | |
| IC803 | A-2 | Q520 | B-3 | ① | | CRYSTAL | | | |
| IC901 | B-2 | Q521 | B-1 | ② | | (Component Side) (Conducto Side) | | | |
| IC902 | A-3 | Q522 | B-1 | ② | | X802 | B-3 | | |
| IC903 | A-2 | Q523 | B-1 | ② | | X901 | A-3 | | |
| IC904 | A-3 | Q524 | B-3 | ① | | | | | |
| | | Q601 | A-4 | ① | | | | | |

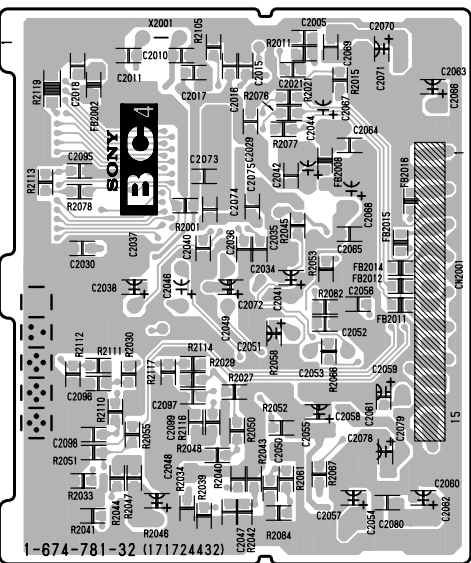
– 99 –

BC4 [3D COMB FILTER]

— BC4 BOARD (COMPONENT SIDE) —



— BC4 BOARD (CODUCTOR SIDE) —



• BC4 BOARD SEMICONDUCTOR LOCATION

| Ref. | * |
|--------------|---|
| Q2003-Q2016 | ② |
| Q2018, Q2019 | |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

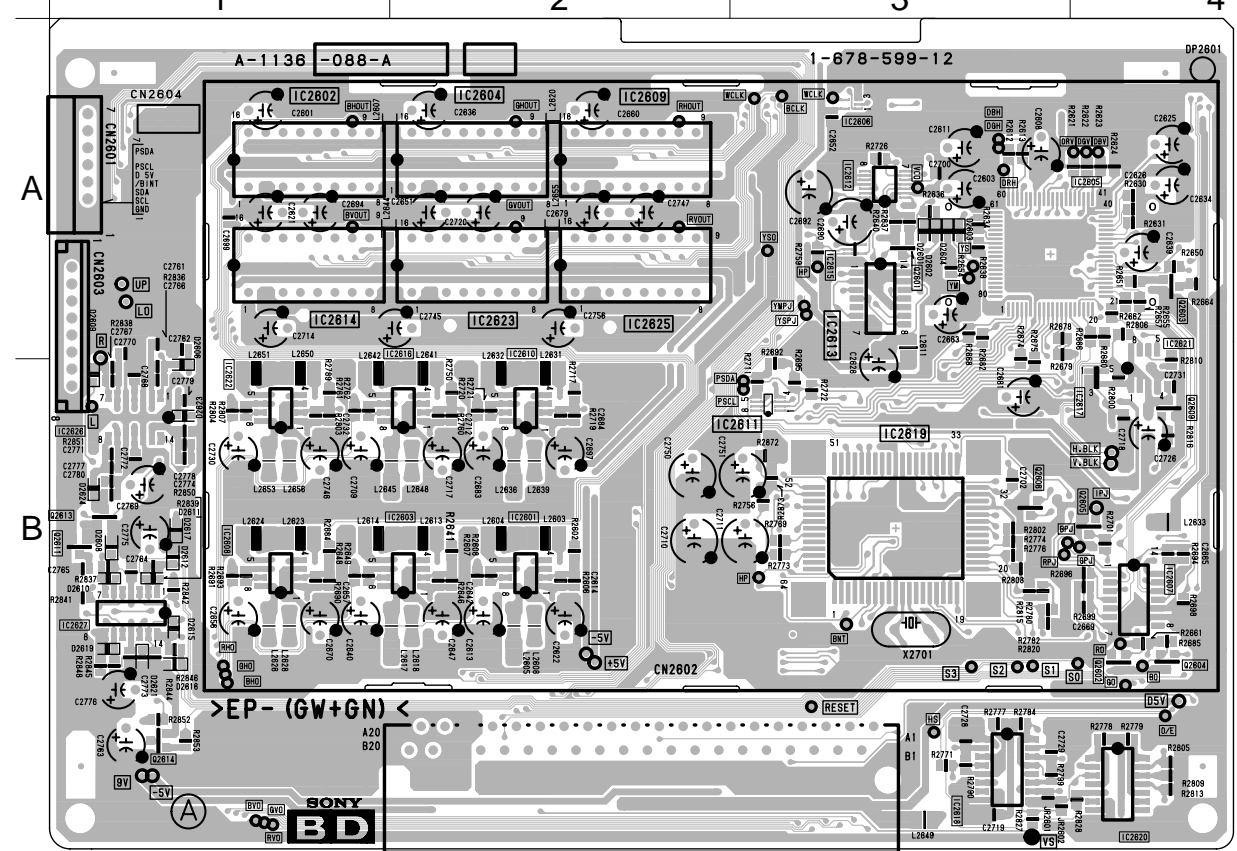
• BD BOARD SEMICONDUCTOR LOCATION

| IC | Q2608 | A-3 | ① |
|------------------|------------------|------------------|---|
| (Component Side) | Q2610 | B-1 | ② |
| (Conductor Side) | Q2611 | B-1 | ② |
| | Q2612 | B-1 | ① |
| | Q2613 | B-1 | ② |
| | Q2614 | B-1 | ② |
| DIODE | | | |
| | (Component Side) | (Conductor Side) | * |
| IC2601 | B-1 | | ③ |
| IC2602 | A-1 | B-1 | ③ |
| IC2603 | B-1 | | ③ |
| IC2604 | A-2 | B-2 | ③ |
| IC2605 | A-4 | | ③ |
| IC2606 | A-3 | | ③ |
| IC2607 | B-3 | | ③ |
| IC2608 | B-1 | | ③ |
| IC2609 | A-2 | B-2 | ③ |
| IC2610 | B-2 | | ③ |
| IC2611 | B-3 | | ③ |
| IC2612 | A-3 | | ③ |
| IC2613 | A-3 | | ③ |
| IC2614 | A-1 | B-1 | ③ |
| IC2615 | A-3 | B-1 | ③ |
| IC2616 | B-1 | | ③ |
| IC2617 | B-4 | | ③ |
| IC2618 | B-3 | | ③ |
| IC2619 | B-3 | | ③ |
| IC2620 | B-4 | | ③ |
| IC2621 | A-4 | | ③ |
| IC2622 | B-1 | A-1 | ③ |
| IC2623 | A-1 | B-1 | ③ |
| IC2625 | A-1 | B-2 | ③ |
| IC2626 | B-1 | | ③ |
| IC2627 | B-1 | | ③ |
| TRANSISTOR | | | |
| | (Component Side) | (Conductor Side) | * |
| Q2601 | A-3 | ② | ② |
| Q2602 | B-4 | ② | ② |
| Q2603 | A-4 | ② | ② |
| Q2604 | B-4 | ② | ② |
| Q2605 | B-4 | ② | ② |
| Q2606 | B-3 | ② | ② |
| Q2607 | A-4 | ① | ① |
| CRYSTAL | | | |
| | (Component Side) | (Conductor Side) | |
| X2701 | B-3 | | ③ |

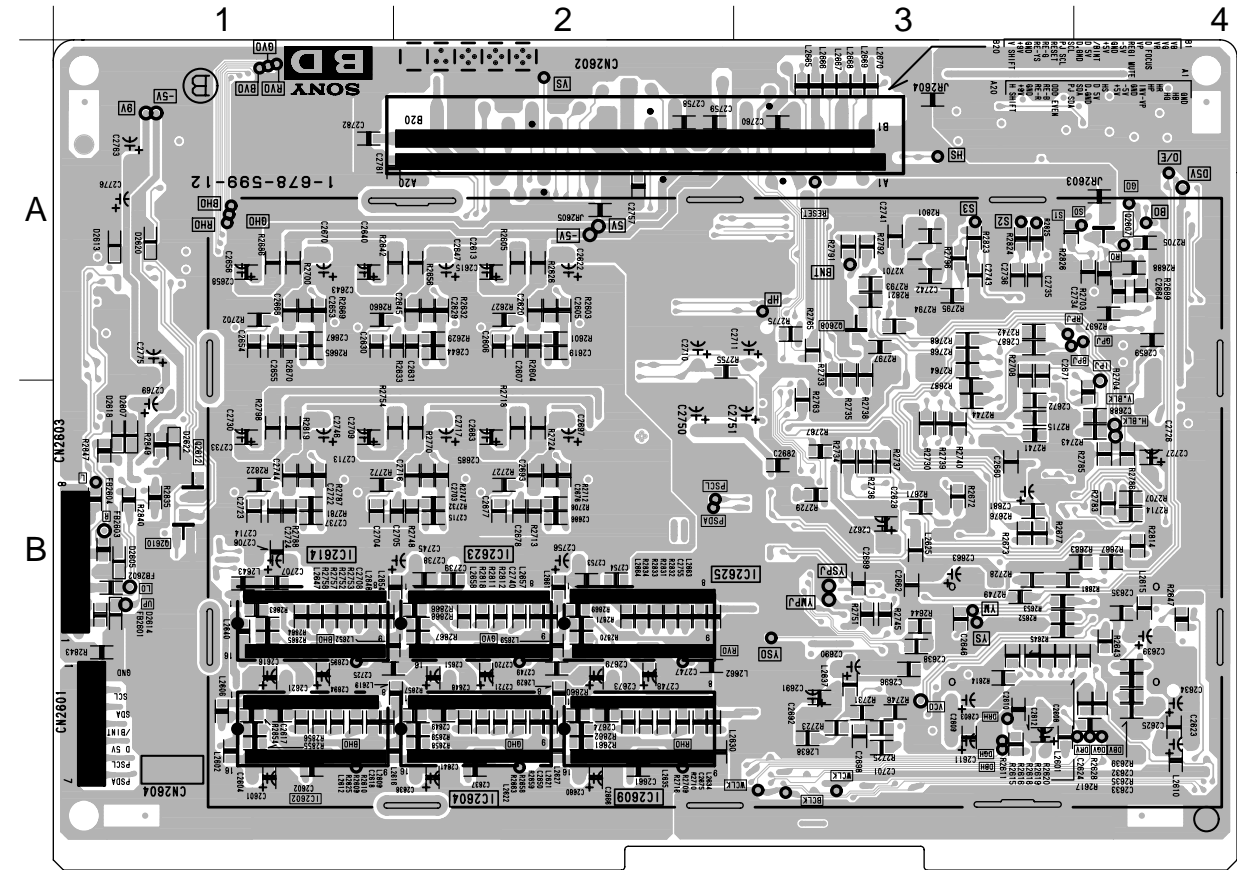
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

BD [PJED,REGISTER CORR]

— BD BOARD (COMPONENT SIDE) —

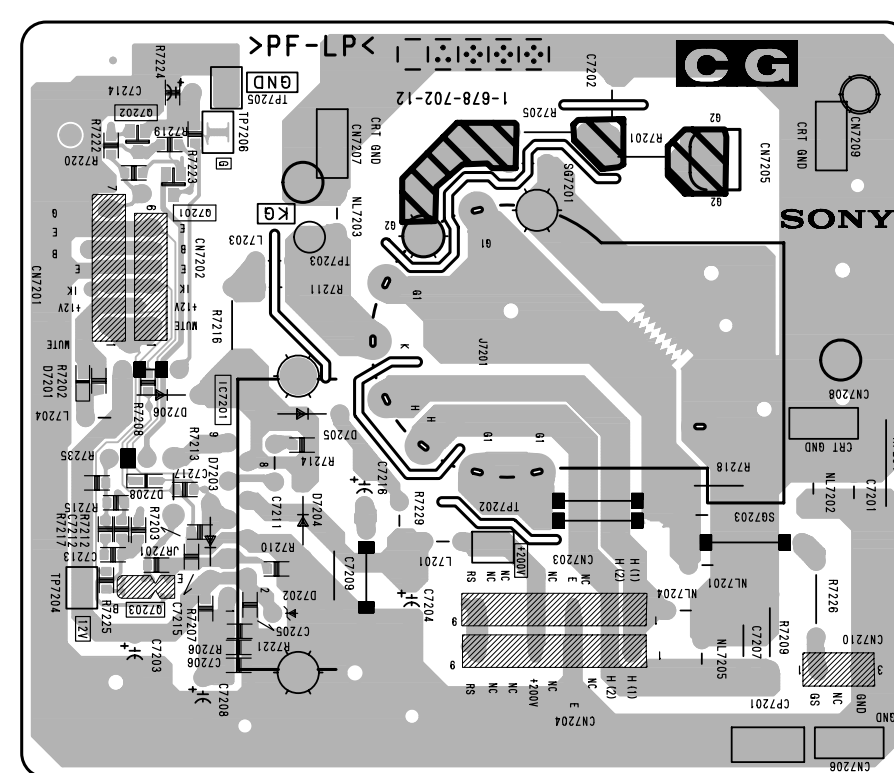


— BD BOARD (CODUCTOR SIDE) —



CG [G,CRT DRIVE]

— CG BOARD (CONDUCTOR SIDE) —



- **CB BOARD
SEMICONDUCTOR LOCATION**

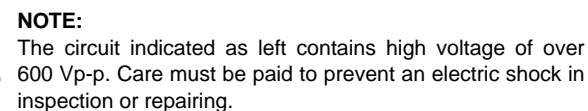
| Ref. | * |
|----------------------------|---|
| D7307, 7309 | ③ |
| Q7301, 7302, 7305, 7306 | ① |

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

| Ref. | * |
|-------------|---|
| D7208 | ③ |
| Q7201, 7202 | ① |

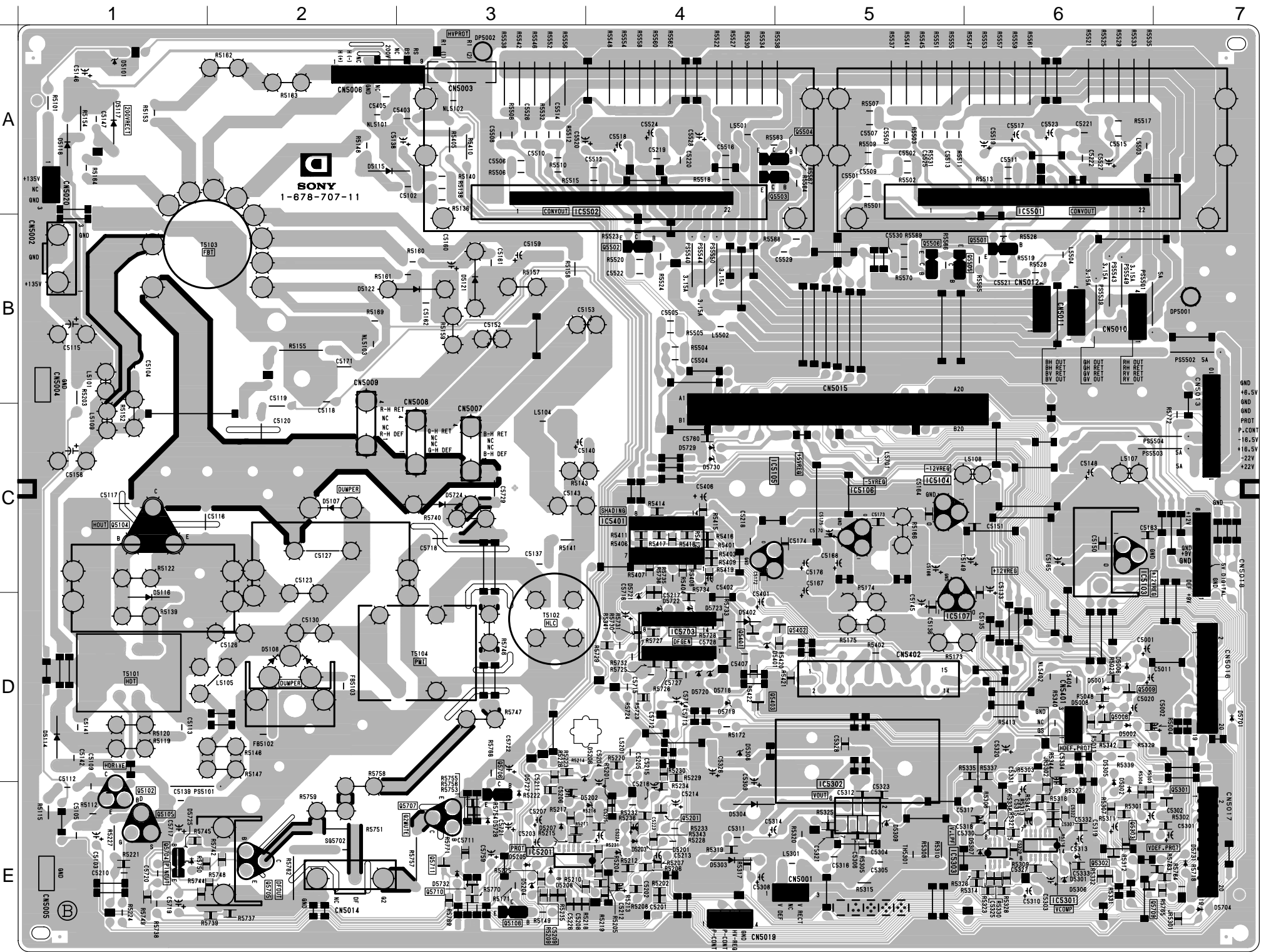
| Ref. | * |
|-------------|---|
| D7208 | ③ |
| Q7201, 7202 | ① |

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)



D [H/V DEFLECTION,HV,DY DRIVE]

— D BOARD (CONDUCTOR SIDE) —

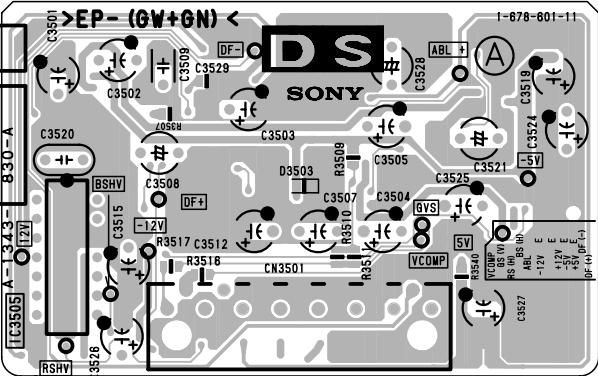


• D BOARD SEMICONDUCTOR LOCATION

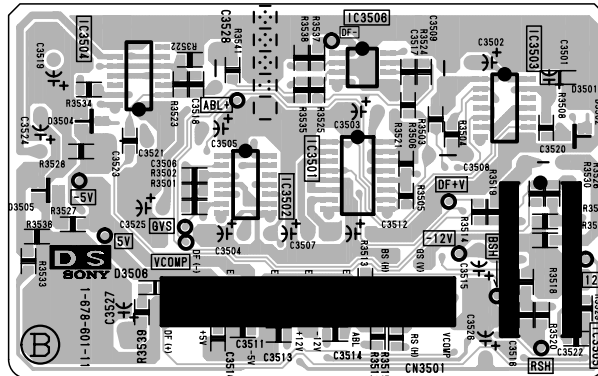
| IC | | Q5102 | E-1 | — | DIODE | | | D5208 | E-3 | — |
|--------|-----|---|-----|---|--|-----|---|-------------------------------|-----|---|
| | | Q5104 | C-1 | — | | | | D5301 | E-6 | — |
| | | Q5105 | E-1 | — | | | | D5302 | E-6 | — |
| | | Q5106 | E-3 | — | | | | D5303 | E-4 | — |
| IC5103 | C-6 | Q5201 <th>E-4</th> <td>①</td> <td>D5001</td> <td>D-6</td> <td>—</td> <td>D5304<th>E-4</th><td>—</td></td> | E-4 | ① | D5001 | D-6 | — | D5304 <th>E-4</th> <td>—</td> | E-4 | — |
| IC5104 | C-5 | Q5302 <th>E-6</th> <td>①</td> <td>D5002</td> <td>D-6</td> <td>—</td> <td>D5305<th>E-6</th><td>—</td></td> | E-6 | ① | D5002 | D-6 | — | D5305 <th>E-6</th> <td>—</td> | E-6 | — |
| IC5105 | C-4 | Q5303 <th>E-6</th> <td>①</td> <td>D5006</td> <td>D-6</td> <td>—</td> <td>D5306<th>E-6</th><td>—</td></td> | E-6 | ① | D5006 | D-6 | — | D5306 <th>E-6</th> <td>—</td> | E-6 | — |
| IC5106 | C-5 | Q5401 | D-4 | ① | D5008 | D-6 | — | D5307 <th>E-6</th> <td>—</td> | E-6 | — |
| IC5107 | D-5 | Q5402 | D-5 | ① | D5101 | A-1 | — | D5308 <th>D-4</th> <td>—</td> | D-4 | — |
| IC5201 | E-3 | Q5403 | D-4 | ① | D5107 | C-2 | — | D5309 <th>E-5</th> <td>—</td> | E-5 | — |
| IC5301 | E-6 | Q5501 | B-6 | — | D5108 | D-2 | — | D5401 | D-4 | — |
| IC5302 | E-5 | Q5502 | B-4 | — | D5114 | D-1 | — | D5402 | D-4 | — |
| IC5303 | E-6 | Q5503 | A-5 | — | D5115 | A-2 | — | D5701 | D-7 | — |
| IC5401 | C-4 | Q5504 | A-5 | — | D5116 | D-1 | — | D5704 <th>E-7</th> <td>—</td> | E-7 | — |
| IC5501 | A-6 | Q5505 | B-5 | — | D5117 | A-1 | — | D5719 <th>D-4</th> <td>—</td> | D-4 | — |
| IC5502 | A-3 | Q5506 | B-5 | — | D5118 | A-1 | — | D5721 <th>D-4</th> <td>—</td> | D-4 | — |
| IC5703 | D-4 | Q5704 | E-1 | — | D5121 | B-3 | — | D5724 <th>C-3</th> <td>—</td> | C-3 | — |
| | | Q5705 | E-2 | — | D5122 <th>B-3</th> <td>—</td> <td>D5726<th>E-3</th><td>—</td></td> | B-3 | — | D5726 <th>E-3</th> <td>—</td> | E-3 | — |
| | | Q5706 | E-3 | — | D5201 | E-4 | — | D5727 <th>E-3</th> <td>—</td> | E-3 | — |
| | | Q5707 | E-3 | — | D5202 | E-4 | — | D5732 <th>E-3</th> <td>—</td> | E-3 | — |
| | | Q5710 | E-3 | ① | D5203 | E-4 | — | | | |
| | | Q5711 | E-3 | ① | D5204 | E-3 | — | | | |
| | | | | | D5205 | E-3 | — | | | |
| | | | | | D5207 | E-3 | — | | | |
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DS [SHADING]

— DS BOARD (COMPONENT SIDE) —



— DS BOARD (CONDUCTOR SIDE) —



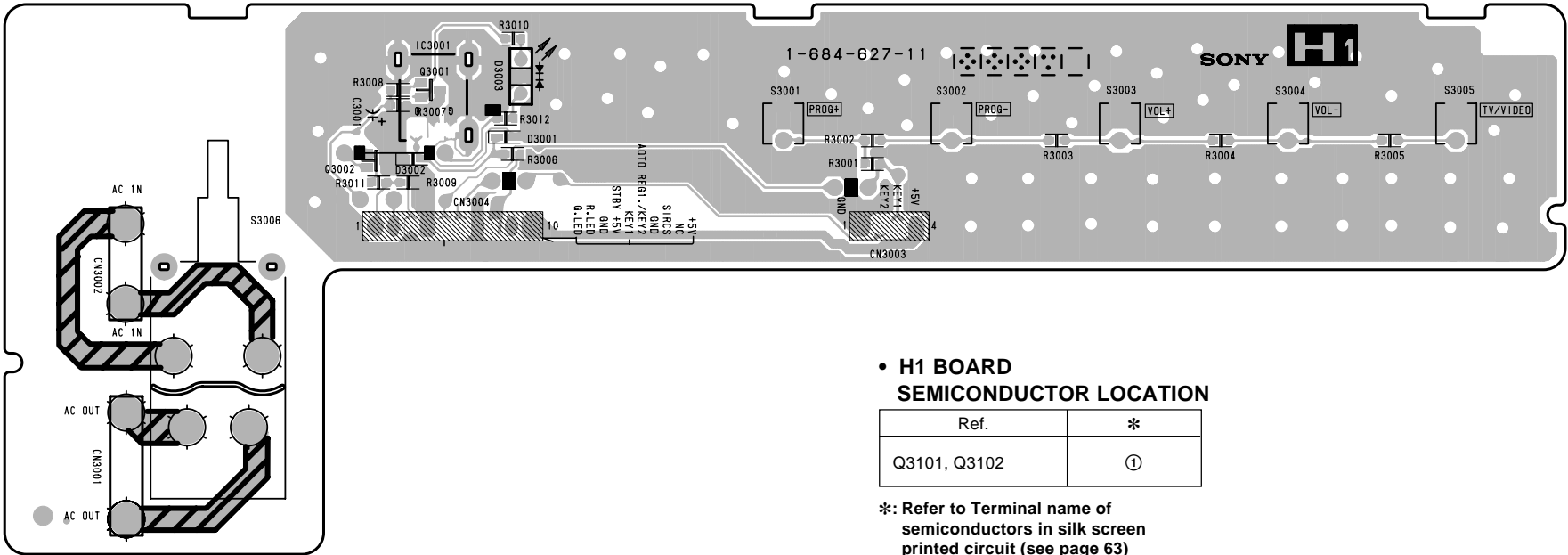
• DS BOARD SEMICONDUCTOR LOCATION

| Ref. | * |
|--------------|---|
| D3501, D3503 | ③ |
| D3502 | ⑩ |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

H1 [MAIN SWITCH,USER CONTROL]

— H1 BOARD (CONDUCTOR SIDE) —



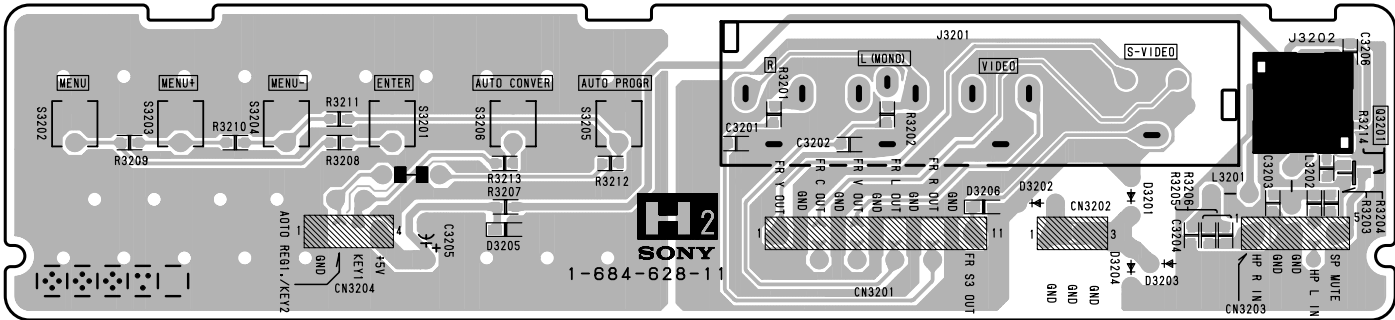
• H1 BOARD SEMICONDUCTOR LOCATION

| Ref. | * |
|--------------|---|
| Q3101, Q3102 | ① |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

H2 [HP OUT,AV INPUT,USER CONTROL]

— H2 BOARD (CONDUCTOR SIDE) —



• H2 BOARD SEMICONDUCTOR LOCATION

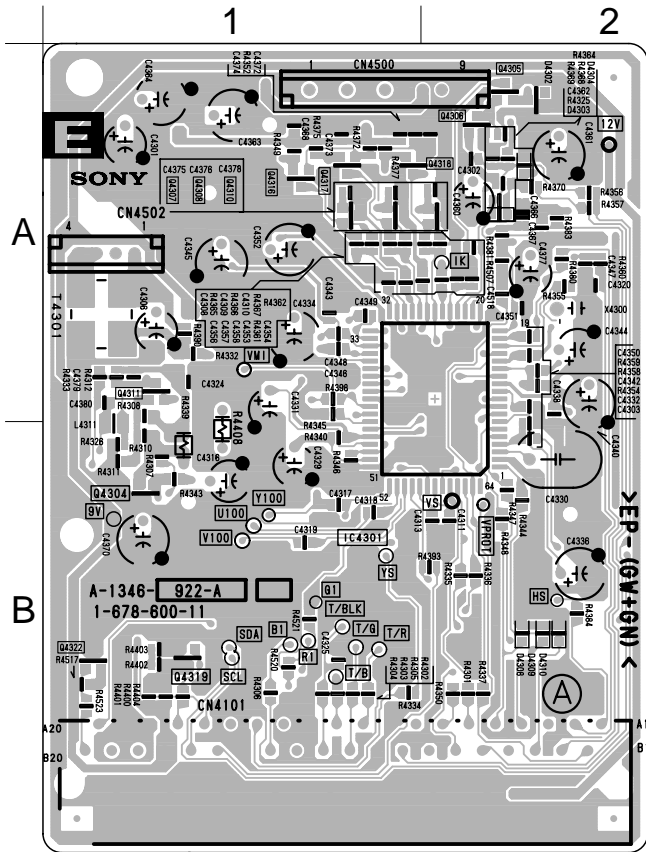
| Ref. | * |
|-------|---|
| D3203 | ③ |
| Q3201 | ① |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

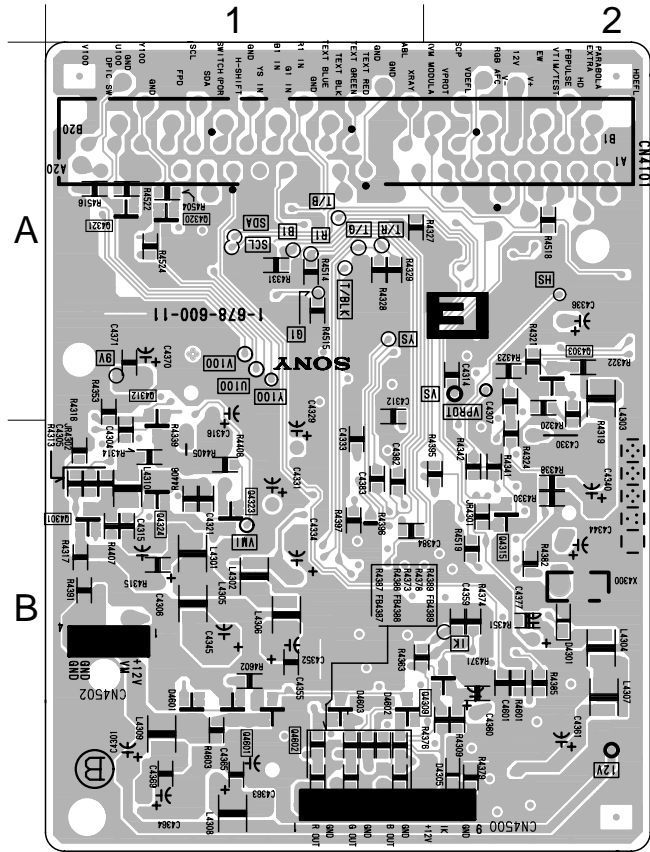
E

[R/G/B/VM OUT,Y/C/J]

— E BOARD (COMPONENT SIDE) —



— E BOARD (CONDUCTOR SIDE) —



• E BOARD SEMICONDUCTOR LOCATION

| IC | | | Q4322 | B-1 | ② |
|------------------|------------------|------------------|------------------|------------------|---|
| IC4301 | (Component Side) | (Conductor Side) | Q4323 | B-1 | ① |
| | A-2 | | Q4324 | B-1 | ① |
| | | | Q4601 | B-1 | ① |
| | | | Q4602 | B-1 | ① |
| TRANSISTOR | | | DIODE | | |
| (Component Side) | (Conductor Side) | * | (Component Side) | (Conductor Side) | * |
| Q4301 | B-1 | ① | D4304 | A-2 | ③ |
| Q4303 | A-2 | ① | D4305 | B-2 | ③ |
| Q4304 | B-1 | ② | D4601 | B-1 | ④ |
| Q4307 | A-1 | ② | D4602 | B-1 | ④ |
| Q4308 | A-1 | ② | D4603 | B-1 | ④ |
| Q4310 | A-2 | ② | | | |
| Q4316 | A-1 | ② | | | |
| Q4317 | A-1 | ② | | | |
| Q4318 | A-1 | ② | | | |
| Q4319 | B-1 | ② | | | |
| Q4320 | | ① | | | |
| Q4321 | A-1 | ① | | | |
| | | | CRYSTAL | | |
| | | | (Component Side) | (Conductor Side) | |
| | | | X4300 | B-2 | |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)



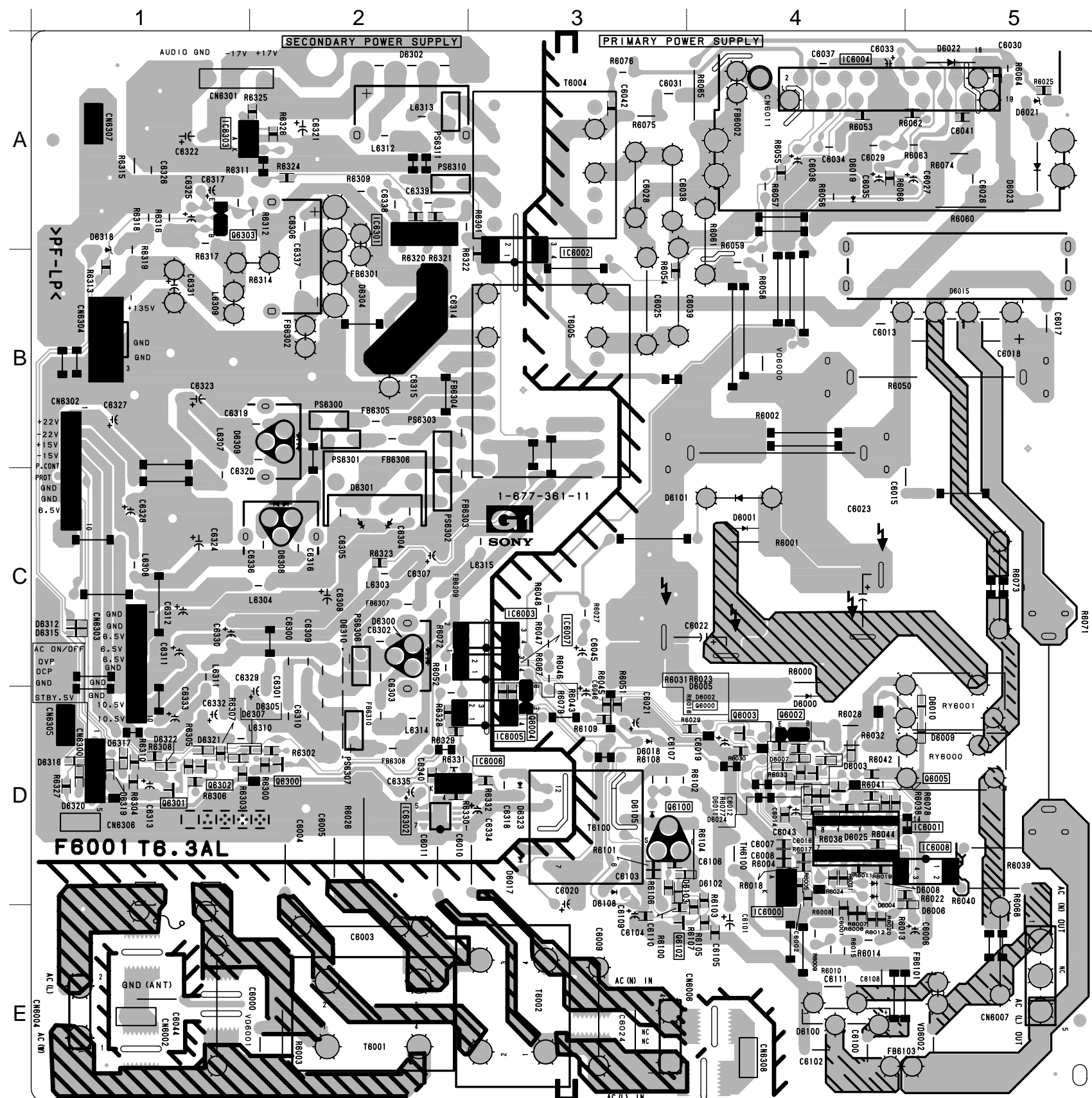
| IC | | DIODE | | | |
|--------|-----|-------|-----|---|-----------|
| IC6002 | B-3 | D6010 | D-3 | * | D6304 B-2 |
| IC6004 | A-4 | D6015 | C-4 | ③ | D6305 D-2 |
| IC6007 | C-3 | D6017 | D-4 | — | D6306 D-2 |
| IC6301 | A-2 | D6019 | A-5 | — | D6307 D-1 |
| IC6302 | D-3 | D6020 | B-5 | — | D6308 C-2 |
| IC6303 | A-1 | D6021 | A-5 | — | D6309 C-2 |
| IC6304 | D-2 | D6022 | A-5 | — | D6310 C-3 |
| | | D6023 | A-5 | — | D6311 D-2 |
| | | D6100 | E-1 | — | D6312 D-1 |
| | | D6101 | D-4 | — | D6315 D-1 |
| | | D6102 | D-4 | ③ | D6316 D-1 |
| | | D6103 | D-4 | — | D6317 D-1 |
| | | D6104 | E-4 | — | D6318 A-1 |
| | | D6105 | D-4 | — | D6319 D-1 |
| | | D6106 | E-4 | — | D6320 D-1 |
| | | D6108 | D-4 | — | D6323 D-3 |
| | | D6300 | C-2 | — | |
| | | D6301 | C-2 | — | |
| | | D6302 | A-2 | — | |
| | | D6303 | D-2 | — | |

***: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)**

NOTE: The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

G1 [POWER SUPPLY]

— G1 BOARD (CONDUCTOR SIDE) —

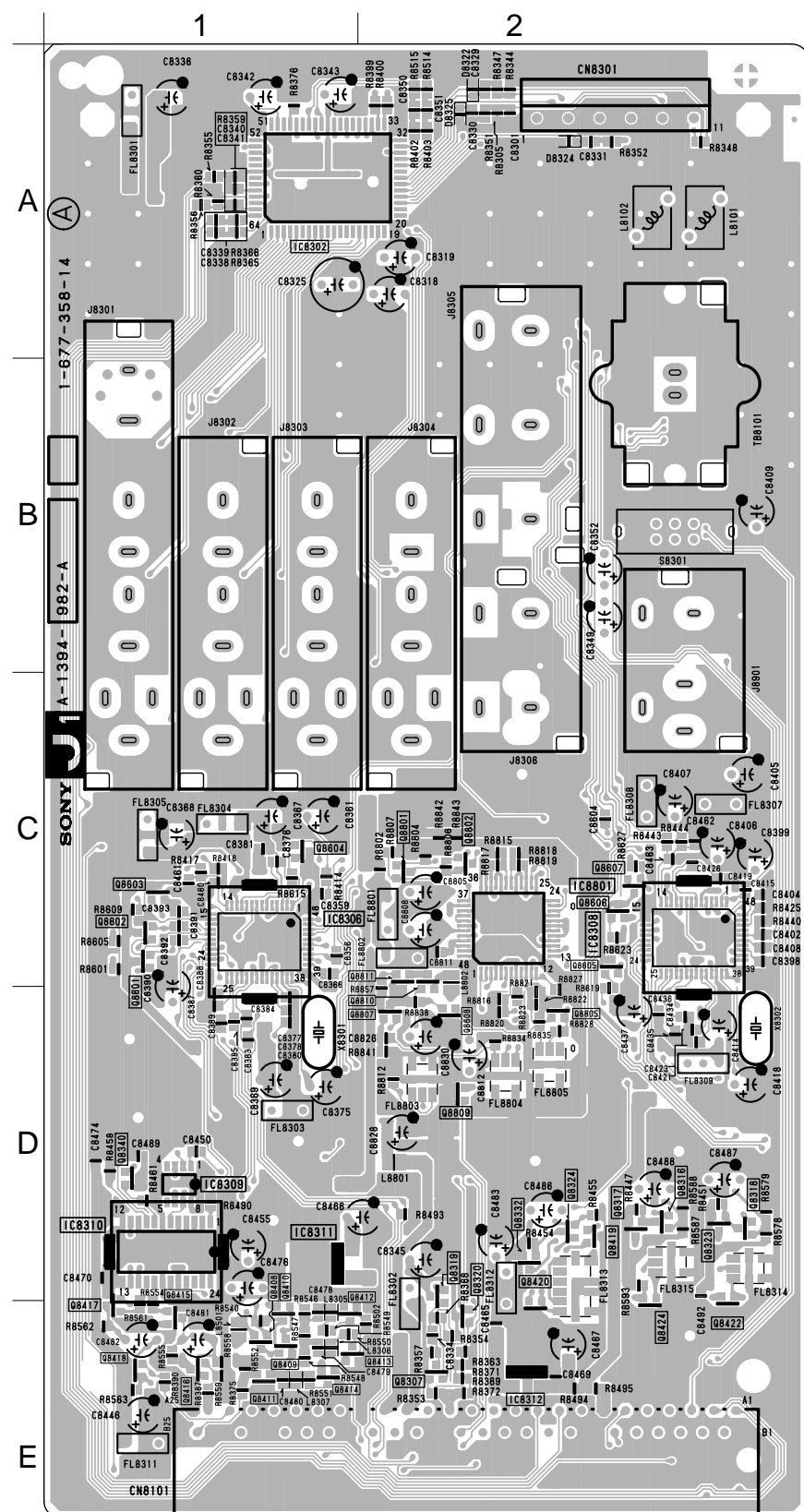


G1 BOARD SEMICONDUCTOR LOCATION

| IC | Q6003 | D-4 | ① | D6007 | D-4 | ③ | D6302 | A-2 | — |
|--------|-------|-----|---|-------|-----|---|-------|-----|---|
| IC6000 | D-4 | — | — | D6008 | D-4 | — | D6304 | B-2 | — |
| IC6001 | D-4 | — | — | D6009 | D-5 | ③ | D6305 | D-2 | ③ |
| IC6002 | B-3 | — | — | D6010 | D-5 | ③ | D6307 | D-1 | ③ |
| IC6003 | C-3 | — | — | D6011 | D-4 | ③ | D6308 | C-1 | — |
| IC6004 | A-4 | — | — | D6015 | B-5 | — | D6309 | B-2 | — |
| IC6005 | D-3 | — | — | D6017 | D-3 | — | D6310 | C-2 | — |
| IC6006 | D-2 | — | — | D6019 | A-4 | — | D6312 | C-1 | ③ |
| IC6007 | C-3 | — | — | D6021 | A-5 | — | D6315 | C-1 | ③ |
| IC6301 | A-2 | — | — | D6022 | A-5 | — | D6316 | D-1 | ③ |
| IC6302 | D-2 | — | — | D6023 | A-5 | — | D6317 | D-1 | ③ |
| IC6303 | A-1 | — | — | D6024 | D-4 | ③ | D6318 | A-1 | — |
| | | | | D6025 | D-4 | ③ | D6319 | D-1 | ③ |
| | | | | D6100 | E-4 | — | D6320 | D-1 | ③ |
| | | | | D6101 | C-4 | — | D6323 | D-3 | — |
| | | | | D6102 | D-4 | ③ | | | |
| | | | | D6103 | D-3 | ③ | | | |
| | | | | D6105 | D-3 | — | | | |
| | | | | D6108 | D-3 | — | | | |
| | | | | D6300 | C-2 | — | | | |
| | | | | D6301 | C-2 | — | | | |
| | | | | | | | | | |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

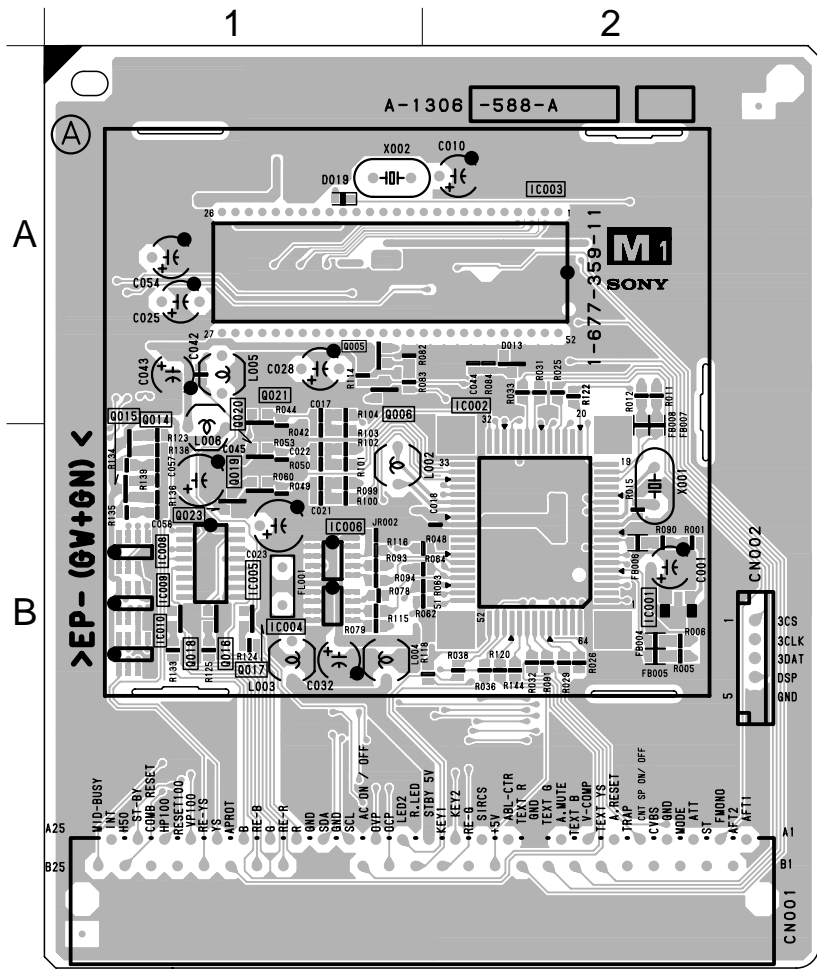
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

[illegible]

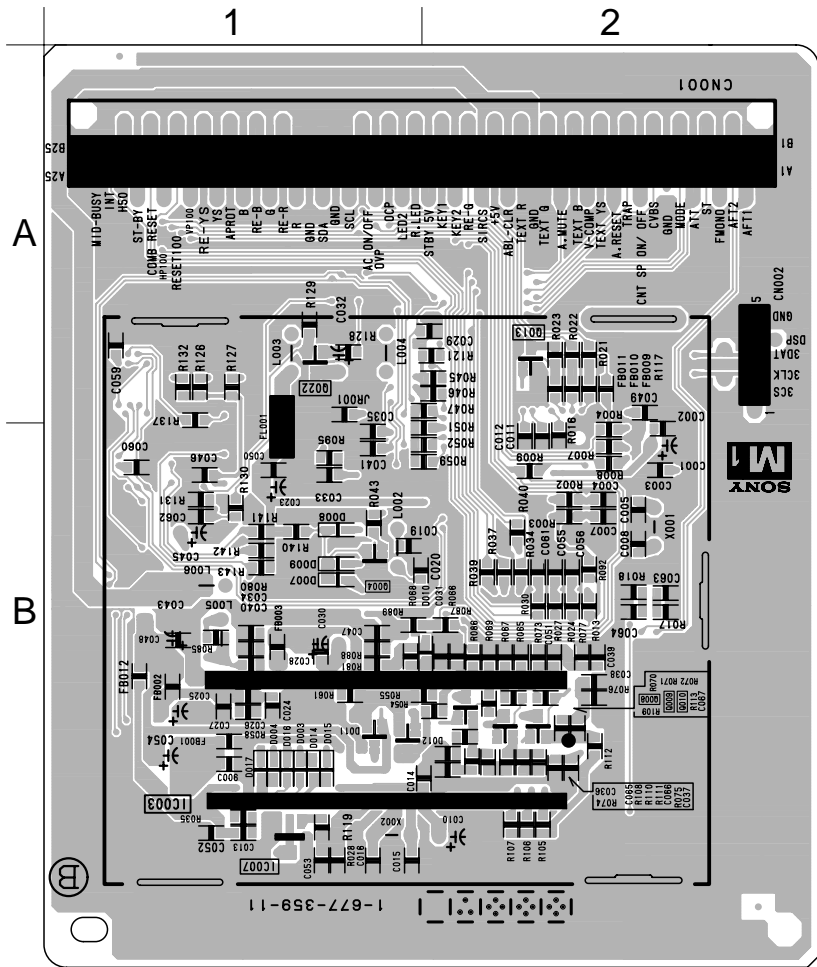
***: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)**

M1 [SYSTEM CONTROL]

— M1 BOARD (COMPONENT SIDE) —



— M1 BOARD (CONDUCTOR SIDE) —



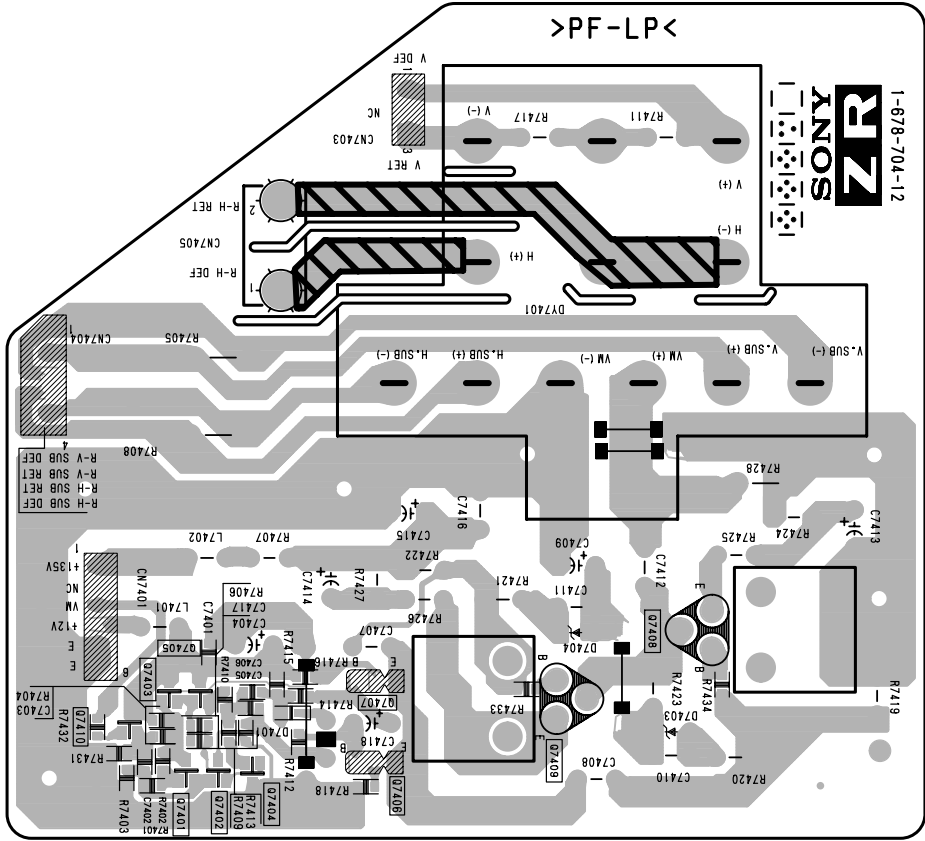
• M1 BOARD SEMICONDUCTOR LOCATION

| IC | | TRANSISTOR | | DIODE | |
|------------------|------------------|------------------|------------------|------------------|------------------|
| (Component Side) | (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) | (Conductor Side) |
| IC001 | B-2 | Q004 | B-2 | D003 | A-2 |
| IC002 | B-2 | Q005 | A-1 | D004 | A-2 |
| IC003 | A-1 | Q006 | A-1 | D007 | A-2 |
| IC004 | B-1 | Q008 | B-2 | D008 | A-2 |
| IC005 | B-1 | Q009 | B-2 | D009 | A-2 |
| IC006 | B-1 | Q010 | B-2 | D015 | A-2 |
| IC007 | B-1 | Q014 | B-1 | D017 | A-2 |
| IC008 | B-1 | Q015 | B-1 | | |
| IC009 | B-1 | Q016 | B-1 | CRYSTAL | |
| IC010 | B-1 | Q017 | B-1 | (Component Side) | (Conductor Side) |
| | | Q018 | B-1 | X001 | B-2 |
| | | Q019 | B-1 | X002 | A-1 |
| | | Q020 | B-1 | | |
| | | Q021 | A-1 | | |
| | | Q022 | A-1 | | |
| | | Q023 | B-1 | | |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

ZR [DY,VM DRIVE]

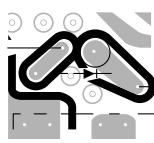
— ZR BOARD (CONDUCTOR SIDE) —



• ZR BOARD
SEMICONDUCTOR LOCATION

| Ref. | * |
|--------------------|---|
| D7401 | ③ |
| Q7401 – 7405, 7410 | ① |

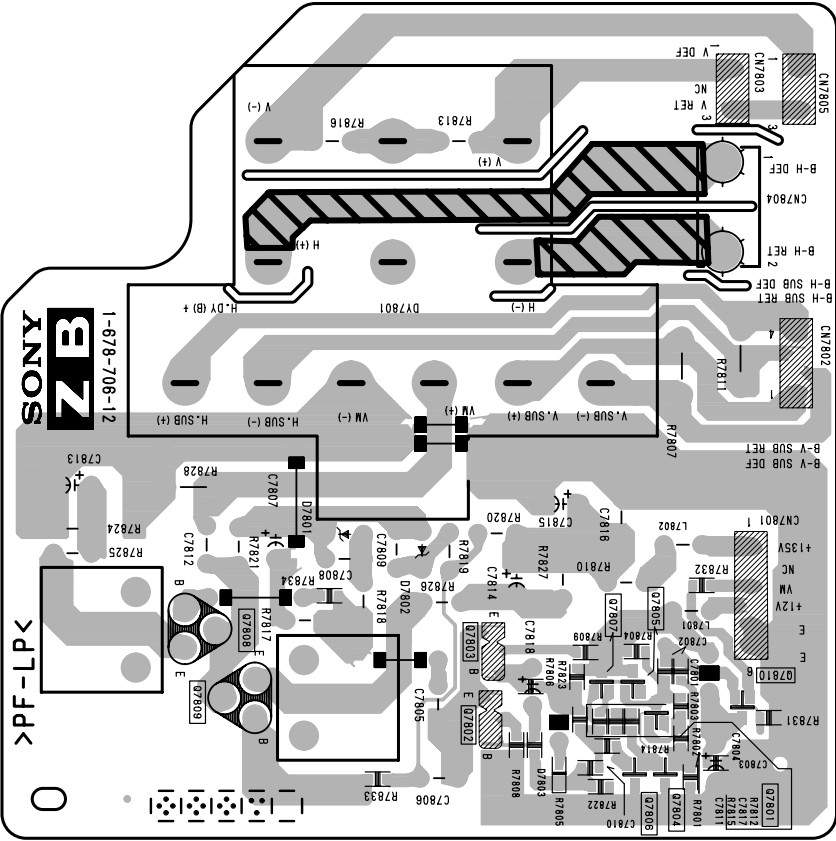
※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)



NOTE:
The circuit indicated as left contains high voltage of over
600 Vp-p. Care must be paid to prevent an electric shock in
inspection or repairing.

ZB [DY,VM DRIVE]

— ZB BOARD (CONDUCTOR SIDE) —



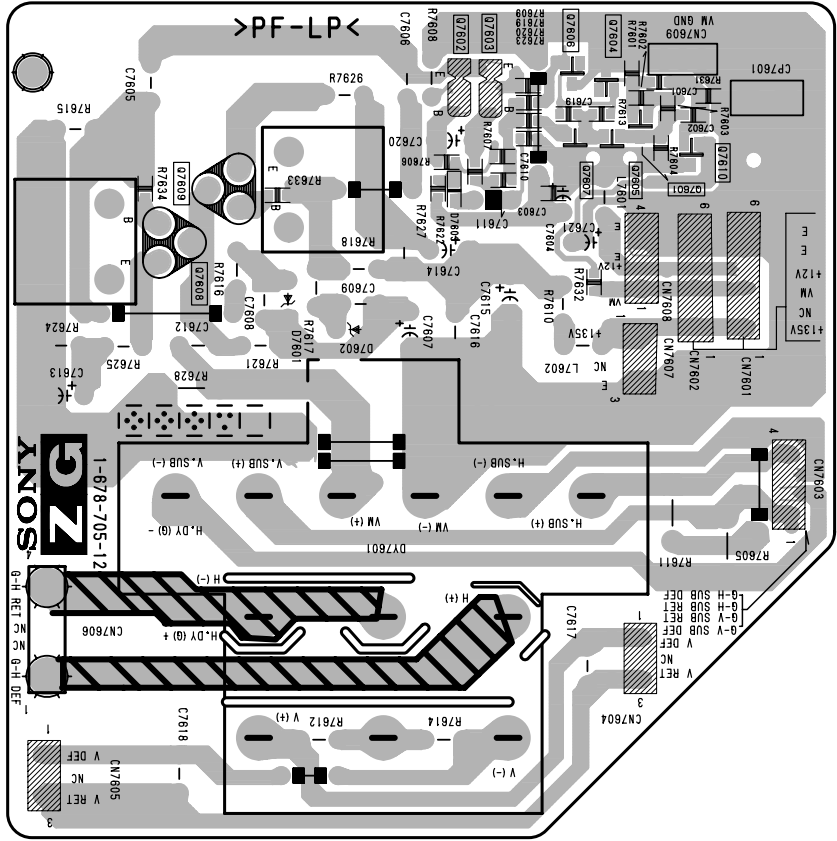
• ZB BOARD
SEMICONDUCTOR LOCATION

| Ref. | * |
|------------------------------|---|
| D7803 | ③ |
| Q7801, 7804 – 7807, Q7810 | ① |

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

ZG [DY,VM DRIVE]

— ZG BOARD (CONDUCTOR SIDE) —

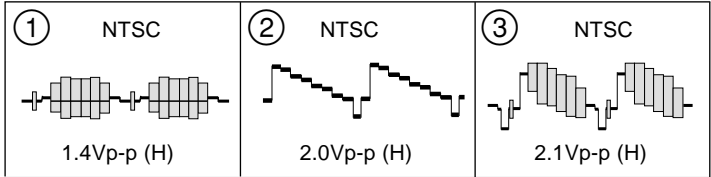


• ZG BOARD
SEMICONDUCTOR LOCATION

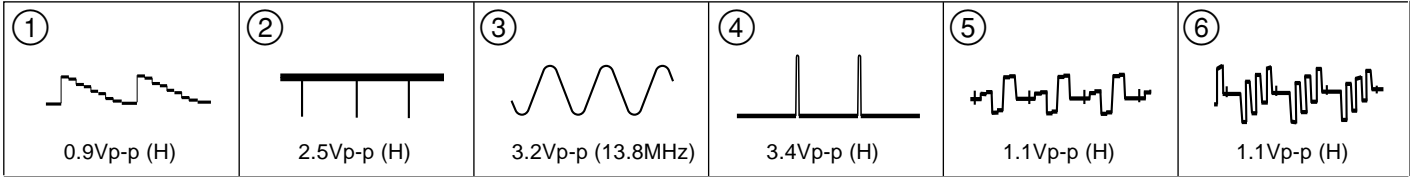
| Ref. | * |
|------------------------------|---|
| D7603 | ③ |
| Q7601, 7604 – 7607, Q7610 | ① |

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

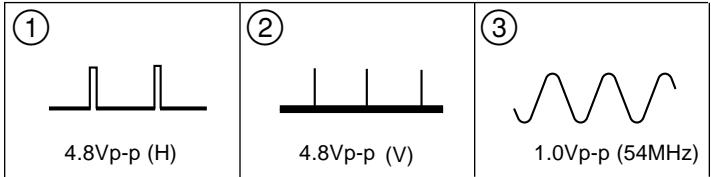
• A1(4/4) BOARD WAVEFORMS



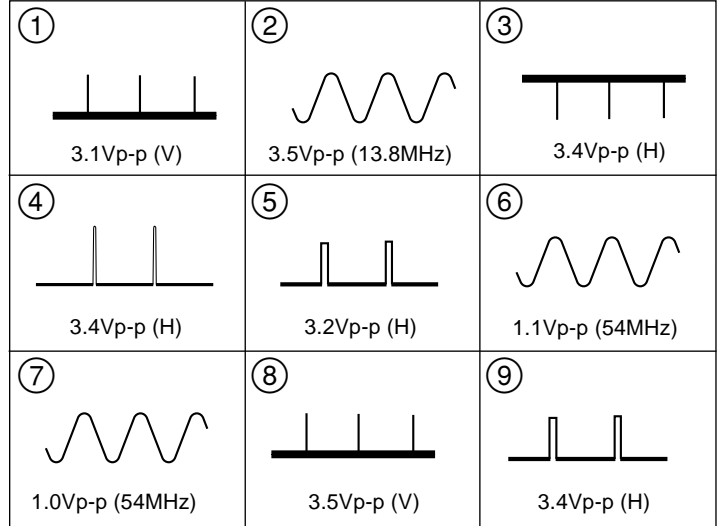
• B3(1/6) BOARD WAVEFORMS



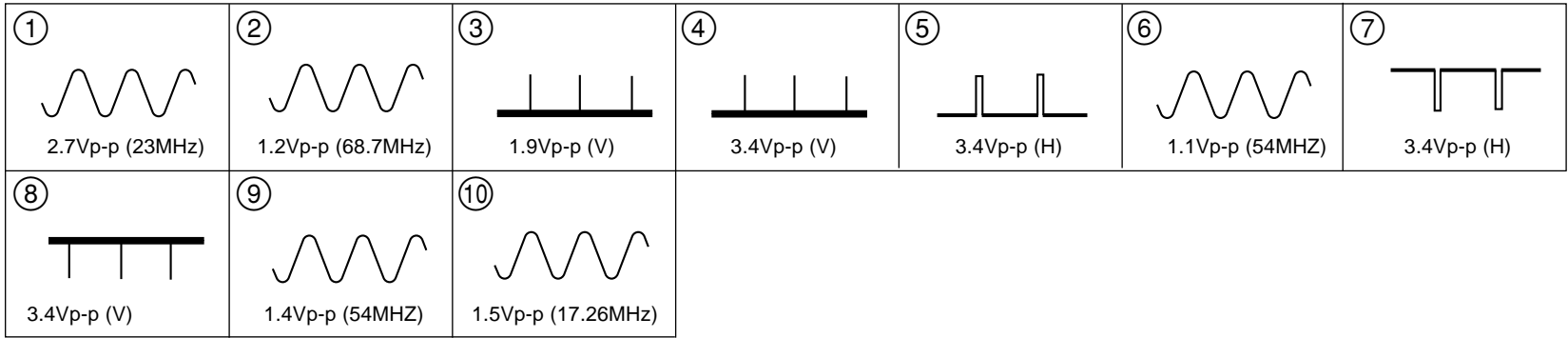
• B3(2/6) BOARD WAVEFORMS



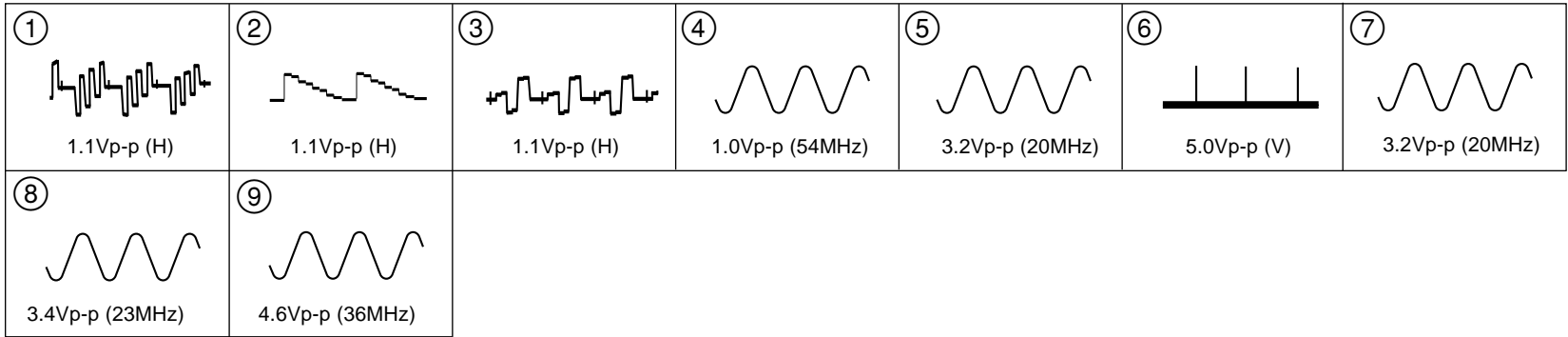
• B3 (3/6) BOARD WAVEFORMS



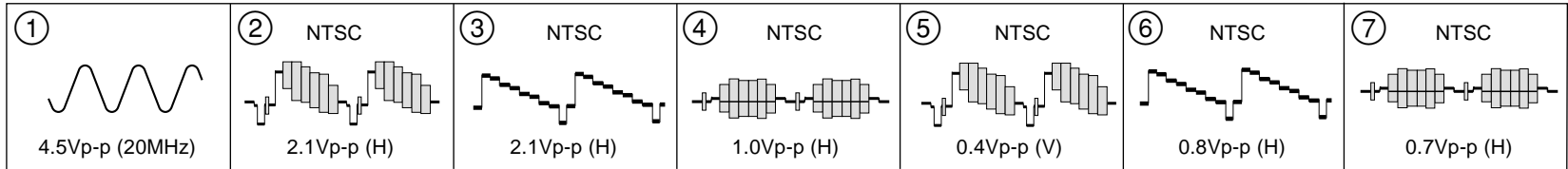
•B3(4/6) BOARD WAVEFORMS



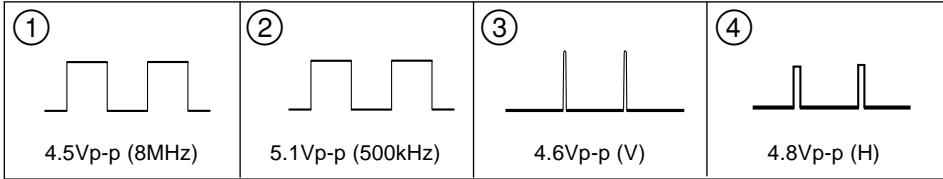
•B3(6/6) BOARD WAVEFORMS



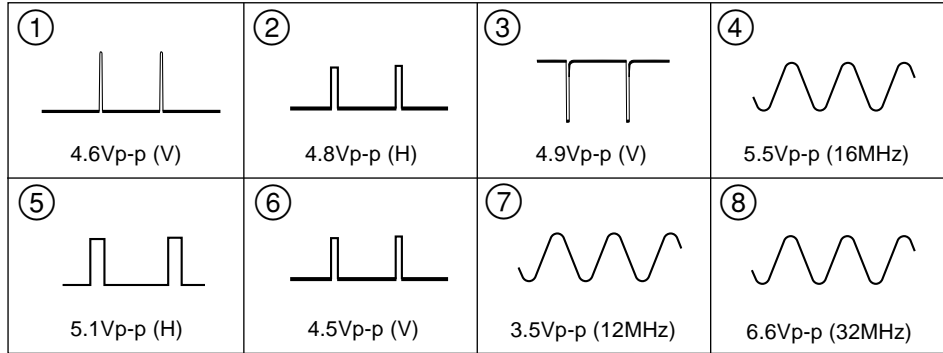
•BC4 BOARD WAVEFORMS



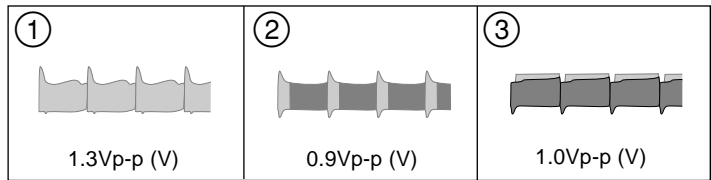
• BD (1/5) BOARD WAVEFORMS



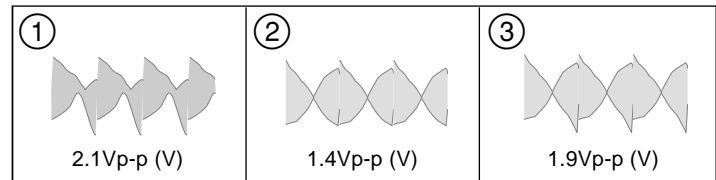
• BD (2/5) BOARD WAVEFORMS



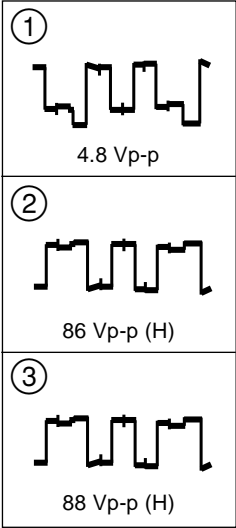
• BD (3/5) BOARD WAVEFORMS



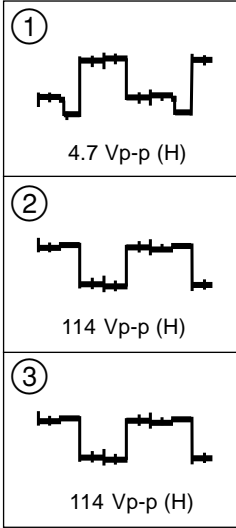
• BD (4/5) BOARD WAVEFORMS



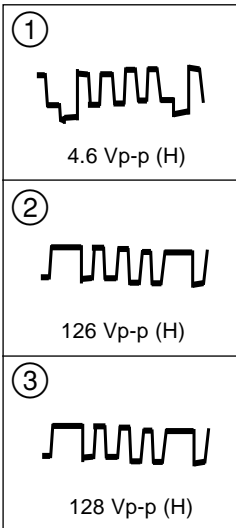
• CR BOARD WAVEFORMS



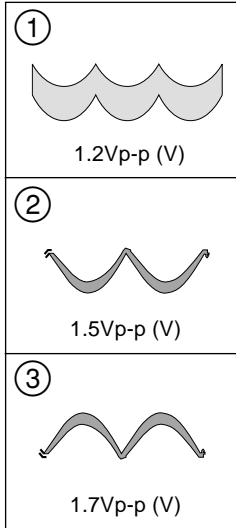
• CG BOARD WAVEFORMS



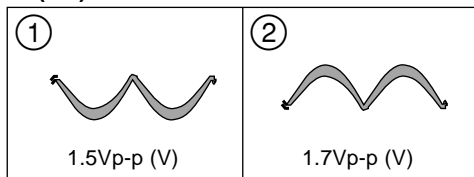
• CB BOARD WAVEFORMS



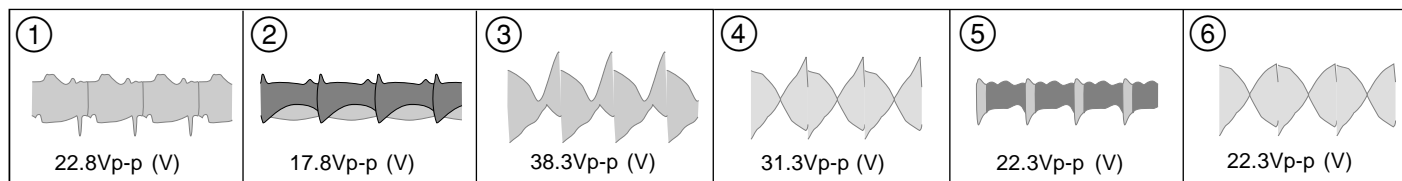
• DS BOARD WAVEFORMS



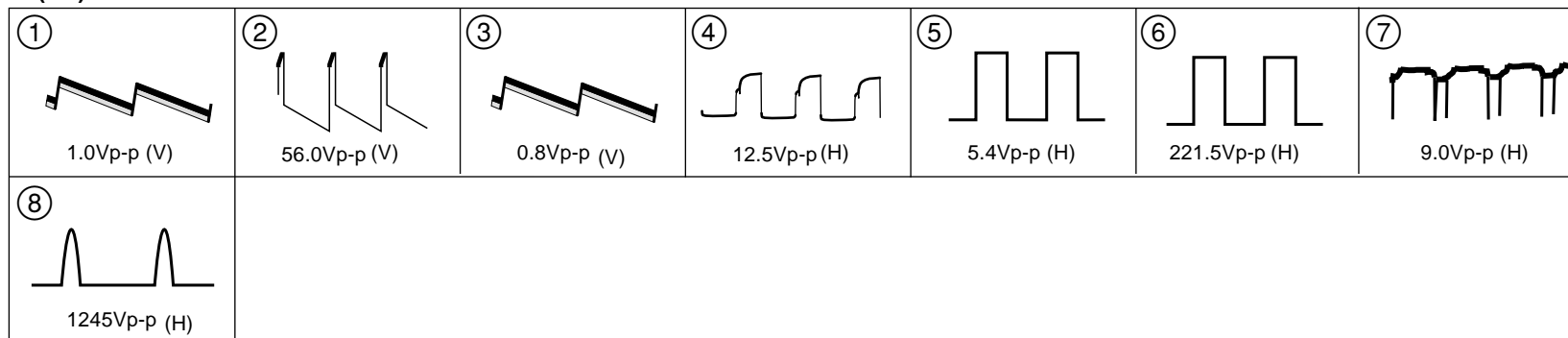
• D(1/4) BOARD WAVEFORMS



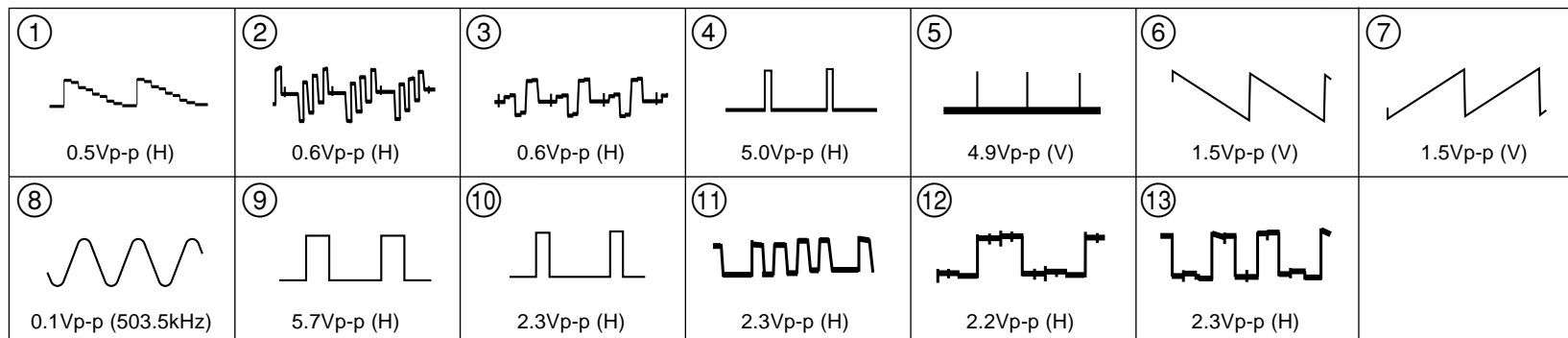
• D(2/4) BOARD WAVEFORMS



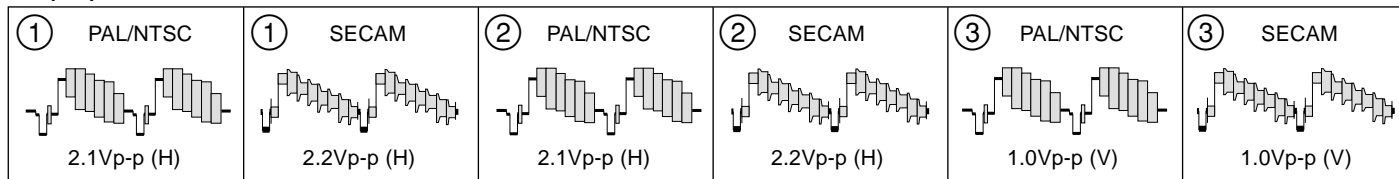
• D(3/4) BOARD WAVEFORMS



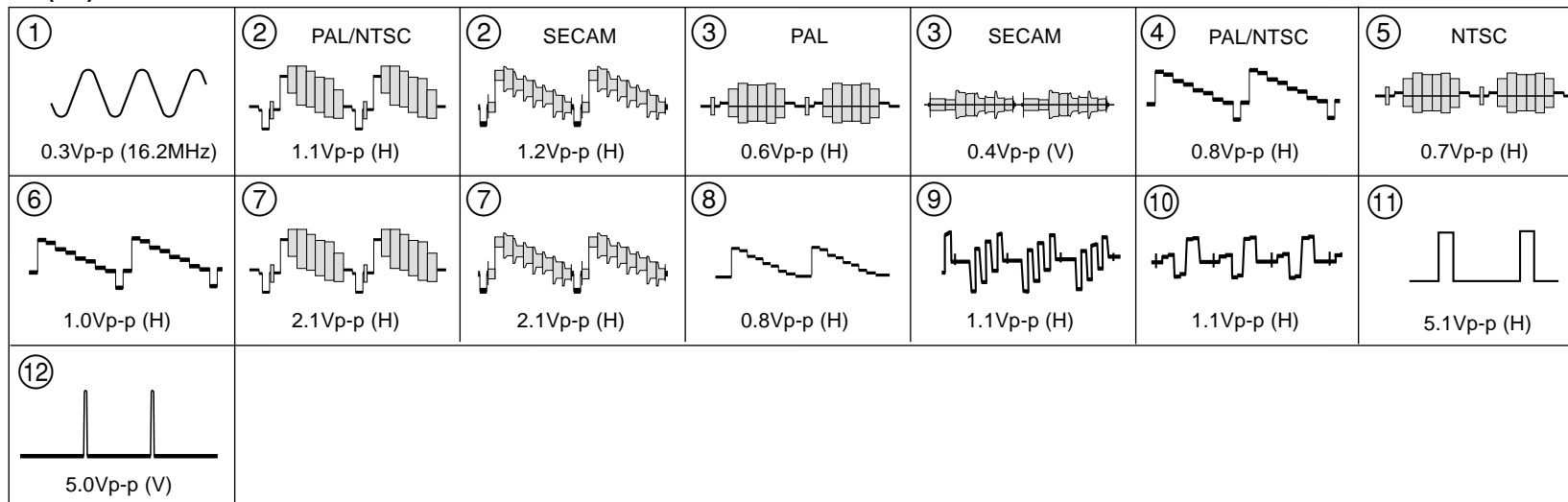
• E BOARD WAVEFORMS



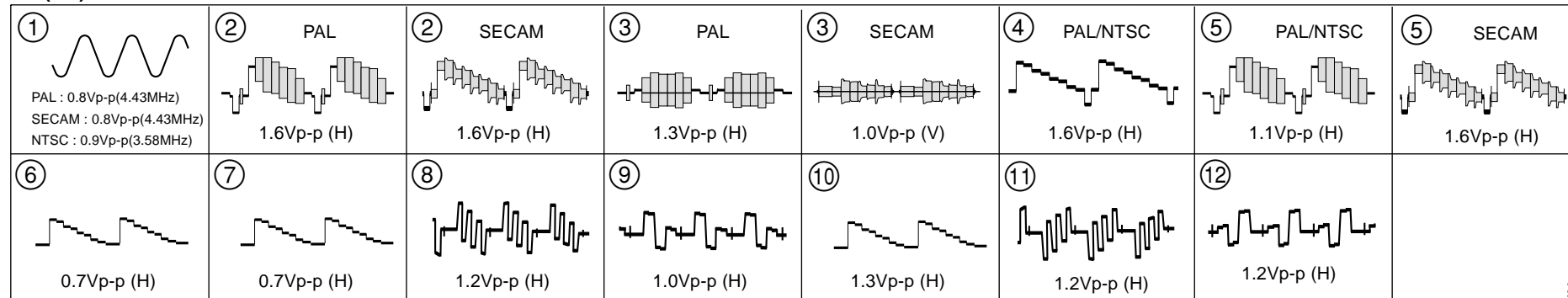
• J1(1/3) BOARD WAVEFORMS



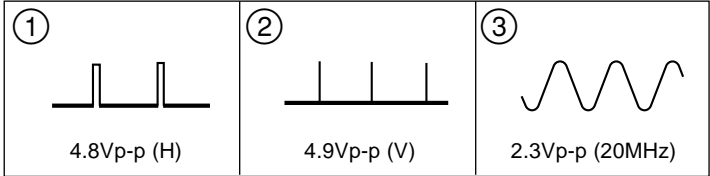
• J1(2/3) BOARD WAVEFORMS



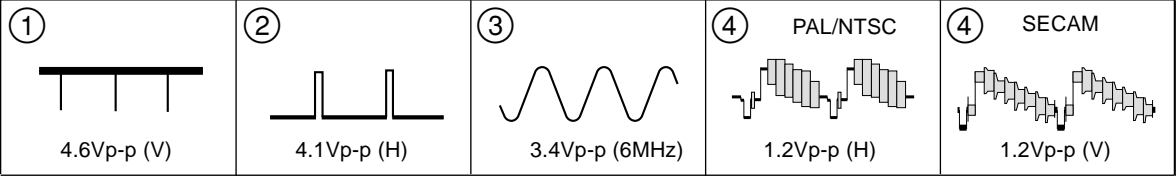
• J1(3/3) BOARD WAVEFORMS



• M1(1/2) BOARD WAVEFORMS

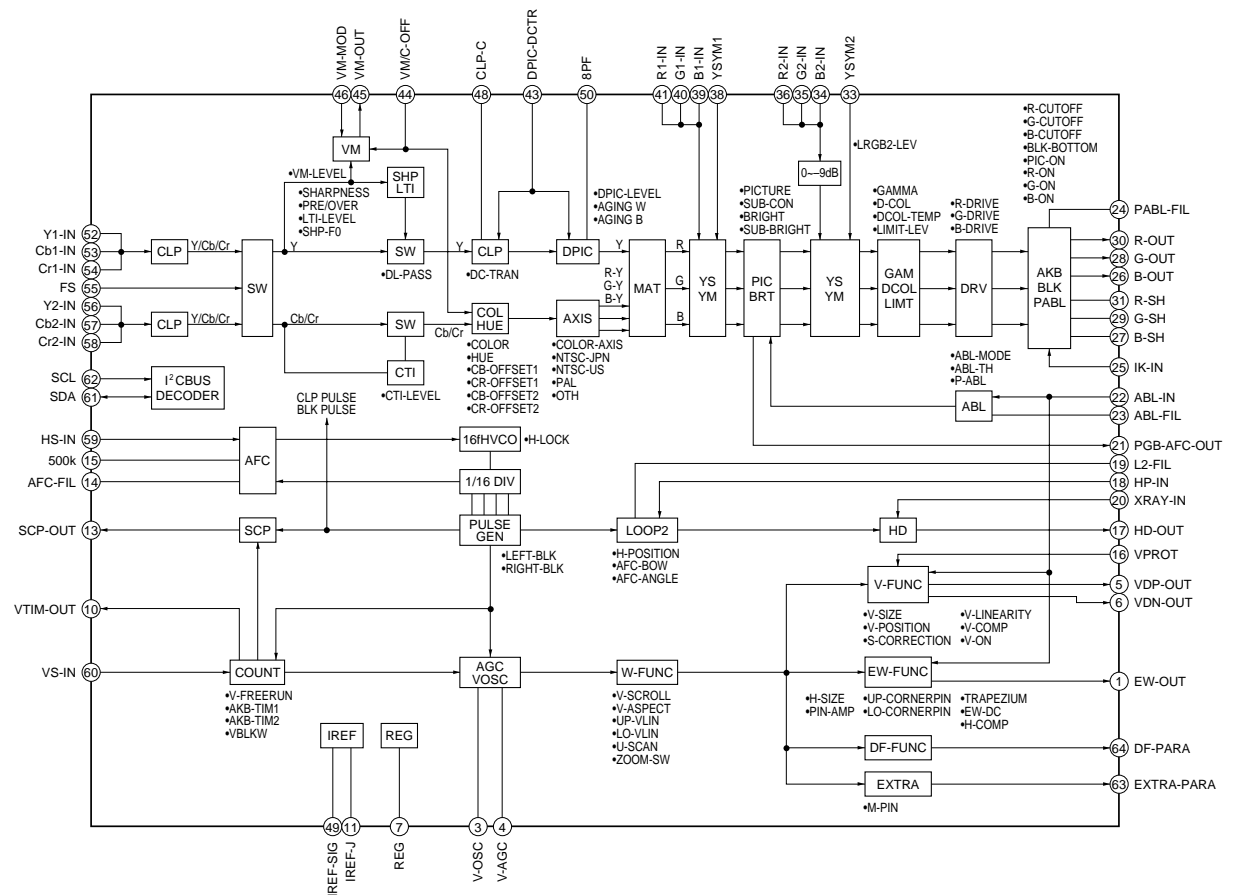


• M1(2/2) BOARD WAVEFORMS



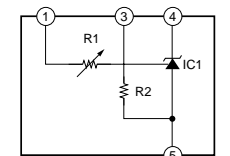
KP-ER43M31/M61/M90/M91,ER53M31/M61/M90/M91
RM-961

- E BOARD : IC4301 CXA2100AQ

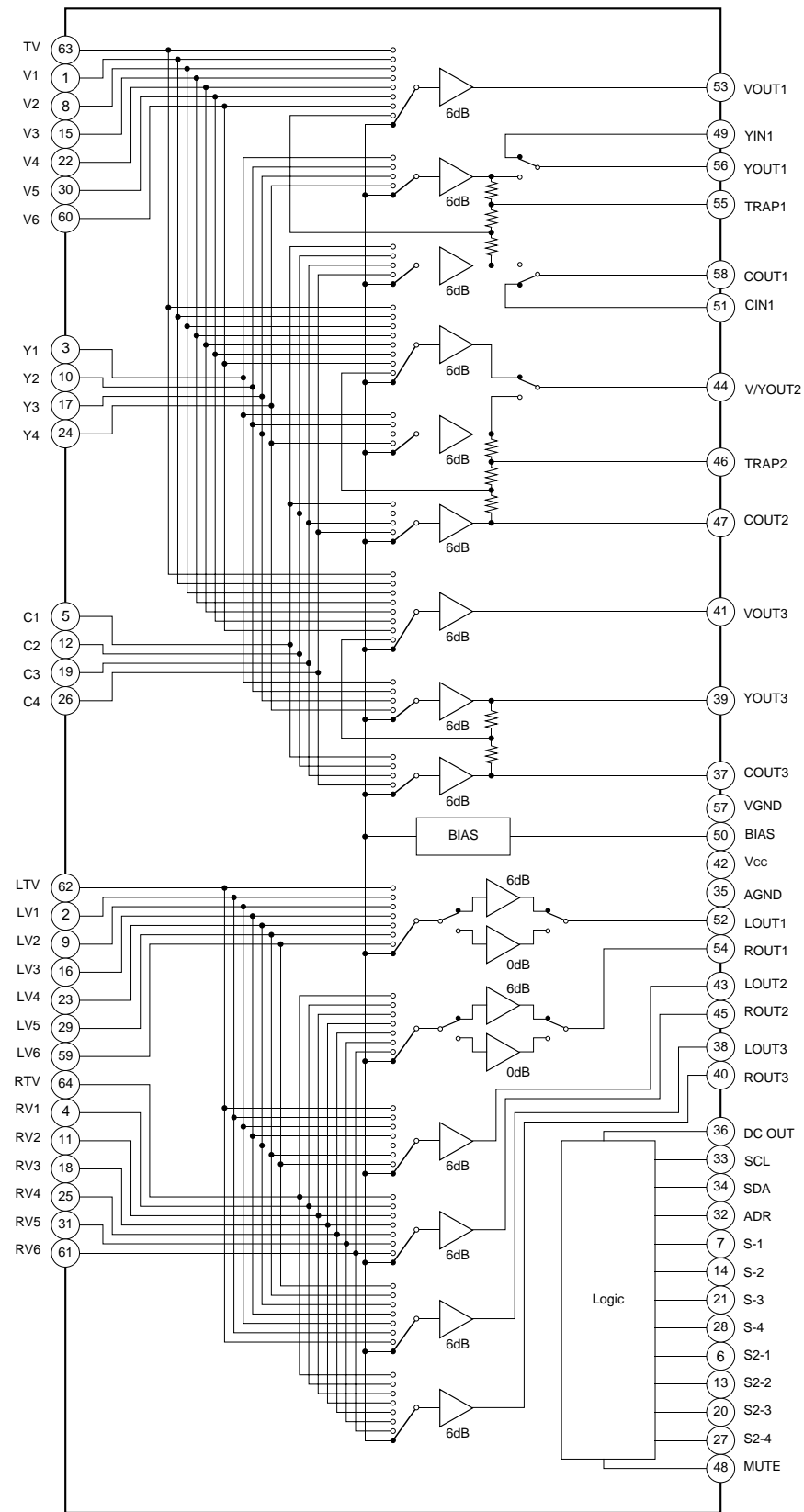


-
- Pin configuration diagram for the AD7124 (16Bit) ADC. The diagram shows a 16-pin package with pins numbered 1 to 16. Pin 1 is -VCC, Pin 2 is DGND, Pin 3 is +VL, Pin 4 is NC, Pin 5 is BCLK, Pin 6 is WCLK, Pin 7 is DATA, Pin 8 is -VL, Pin 9 is VOUT, Pin 10 is RF, Pin 11 is SJ, Pin 12 is AGND, Pin 13 is IOUT, Pin 14 is MSB ADJ, Pin 15 is VPOT, and Pin 16 is +VCC. The internal circuitry includes a 16Bit Serial Parallel Converter, a 16Bit Latch, a 16Bit DAC, and a Control Logic & Level Shift block. A feedback loop is shown from VOUT through a resistor and an inverter back to the MSB ADJ pin.

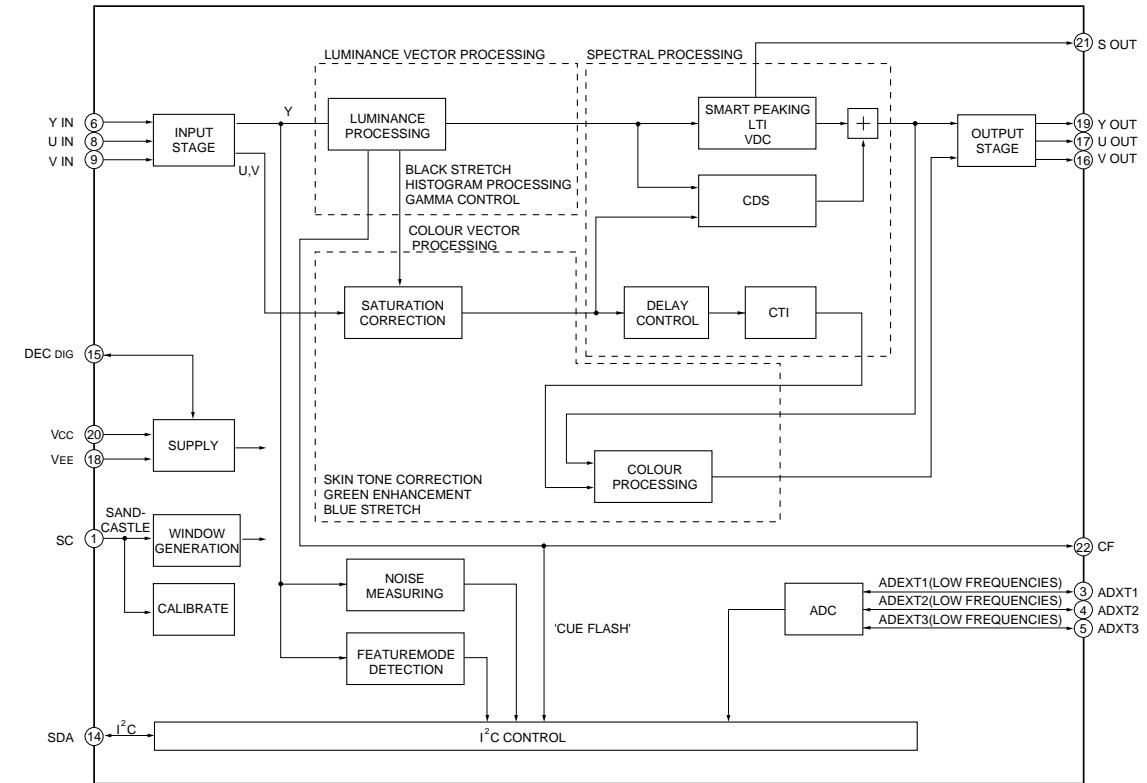
- B3 (3/6) BOARD : IC603
 - B3 (6/6) BOARD : IC313
- TLC2932IPW**



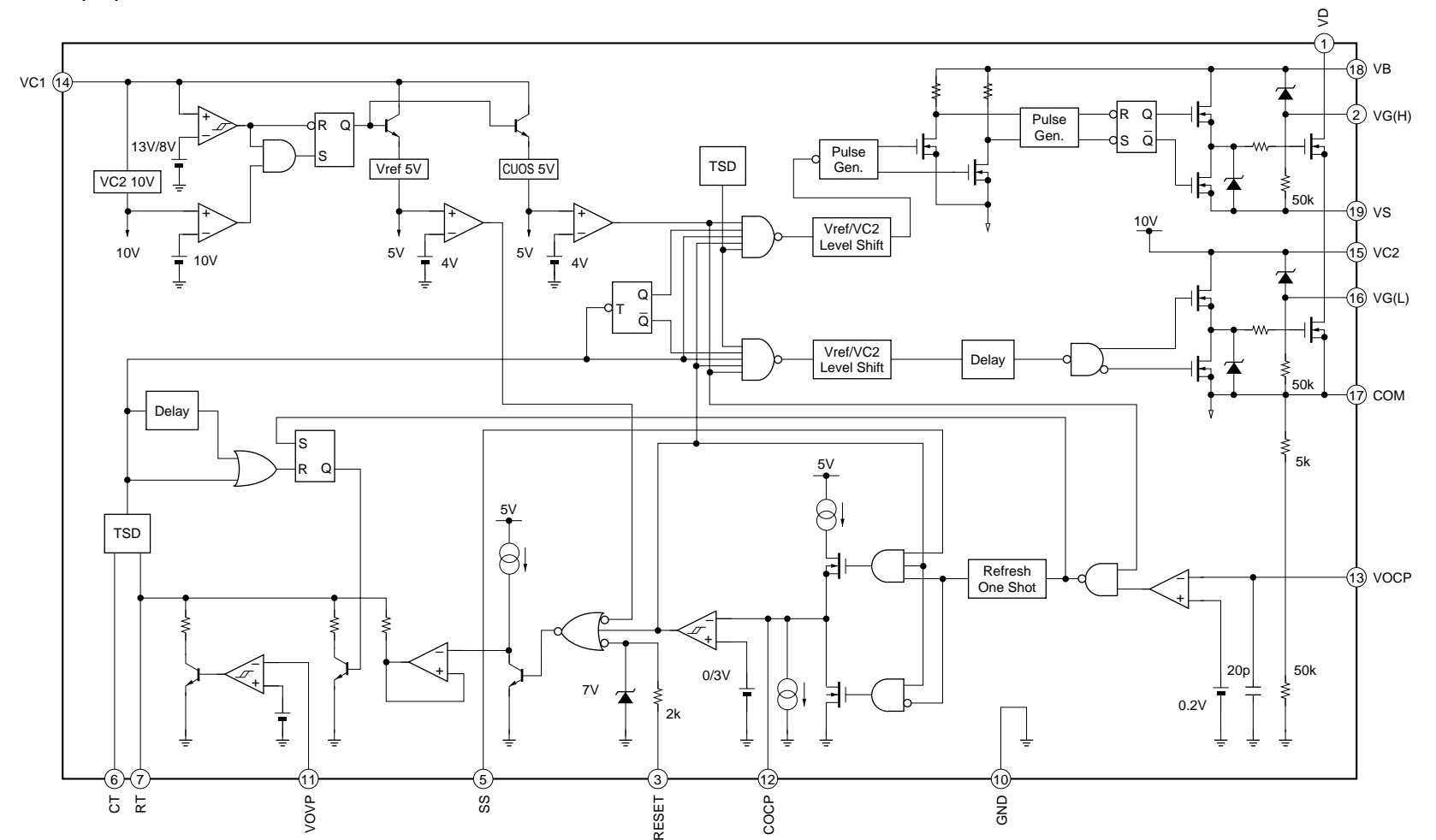
- J1(1/3) BOARD : IC8302 CXA2069Q



- J1(3/3) BOARD : IC8310 TDA9178T/N1.118

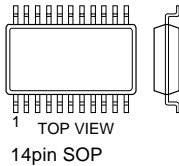


- G(1/2) BOARD : IC6004 MCR5152
- G1(1/2) BOARD : IC6004 MCR5152

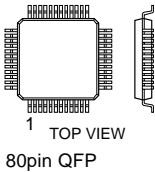


6-8. SEMICONDUCTORS

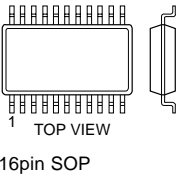
CA0007AM
LM339NS
MC74HC74AFELHC
MM74HC32SJK
NJM2058M-TE2
SN74HC74ANS
SN74HC74ANSR
TLC2932IPWR
TLC2932IPW-E20
TLC2933IPWR-12



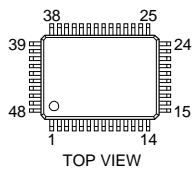
CM0006CF



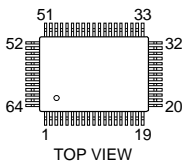
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MC74HC4538AF
MC74HC4538AFEL
PCM56P
PCM56P-L



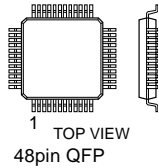
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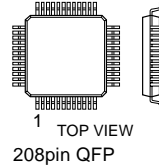
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CXP750096-040Q-TL
CXP86324-028Q



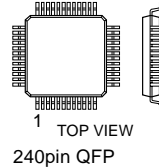
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CXD2064Q-T6
CXD2309Q-T6



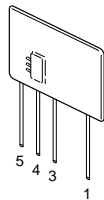
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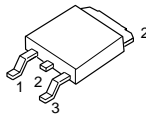
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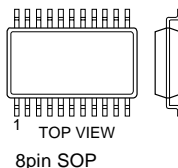
DM-58



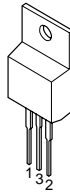
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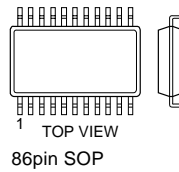
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M24C04-WMN6T
M24C08-MN6T(A)
M24C32-MN6T
TC7W02F
TC7W02F(TE12R)
TC7W04F
TC7W04F(TE12R)
TC7W08F
TC7W08F(TE12R)
TC7W32F
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TC7W66FU(TE12R)
μPC4570G2
μPC4570G2-E2



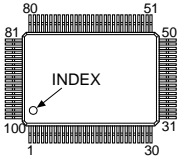
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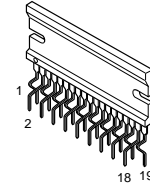
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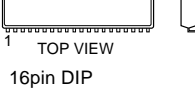
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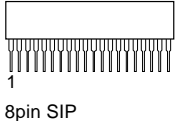
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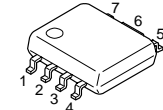
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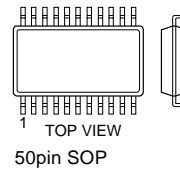
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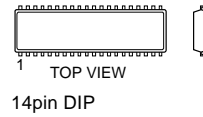
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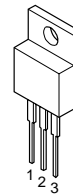
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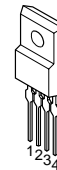
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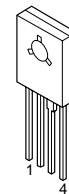
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NJM78M09FA
NJM79M12FA
PQ09RF2



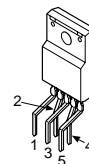
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PQ09RD21



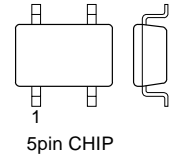
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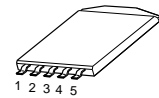
PQ5EV3



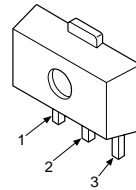
PST9120NL
PST9145NL
TC7SET04F(TE85R)
TC7SET08FU(TE85)
TC7SET08FU(TE85R)



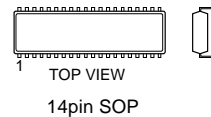
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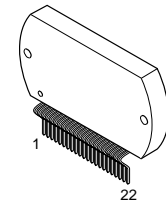
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S-80743AL-A7-T1



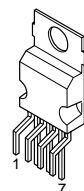
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STK392-020



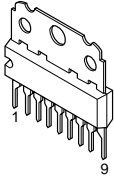
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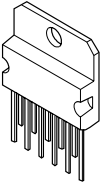
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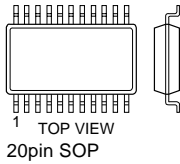
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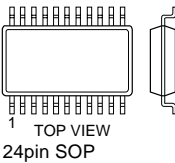
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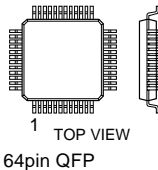
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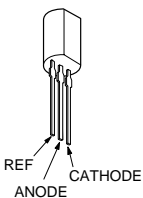
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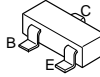
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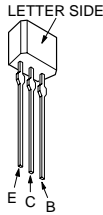
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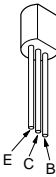
DTC144EKA
DTC144EKA-T146
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1037K-T-146-R
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SD2114K
2SD2114KT146
2SD601A-Q
2SD601A-Q-TX



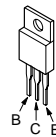
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2SA933AS-QT
2SA933AS-RT
2SC3311A-QRSTA



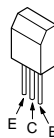
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2SC2551-O
2SC2551O-TPE2



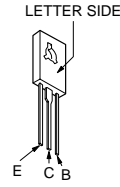
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2SC5022
2SC5511



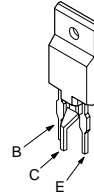
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2SB734-34



2SC2688-LK



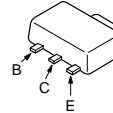
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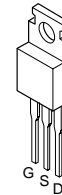
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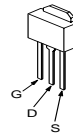
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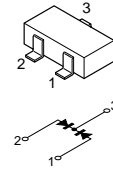
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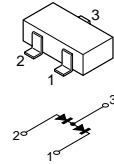
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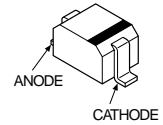
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DAN202K-T-146



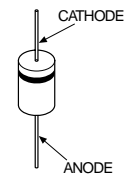
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DA204K
DA204K-T-146



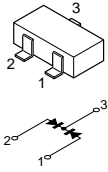
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MA111-TX
UDZ-TE-17-12B
UDZS-TE17-12B
UDZS-TE17-15B
UDZSTE-1724B
UDZSTE-173.7B
UDZSTE-173.9B
UDZSTE-179.1B
1SS355TE-17



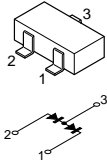
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D1NS6-TA2
EGP20G
EL1Z
EL1Z-V1
ERA22-08
ERA22-08TP3
GP08D
RGP02-20EL-6394
UF4005PKG23
1SS83
1SS83TD



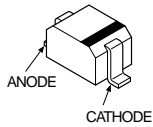
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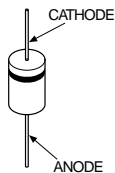
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DA204K
DA204K-T-146



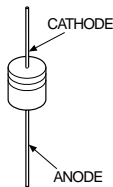
DTZ9.1
MA111-(K8).SO
MA111-TX
UDZ-TE-17-12B
UDZS-TE17-12B
UDZS-TE17-15B
UDZSTE-1724B
UDZSTE-173.7B
UDZSTE-173.9B
UDZSTE-179.1B
1SS355TE-17



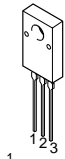
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EL1Z
EL1Z-V1
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ERA22-08TP3
GP08D
RGP02-20EL-6394
UF4005PKG23
1SS83
1SS83TD



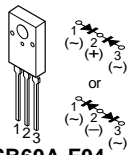
D1N20R
D1N20R-TA2
D1NL40-TA2
D1NS4
MTZJ-13
MTZJ-13B
MM3Z5V1ST1
MM3Z5V6ST1
MM3Z6V2ST1
MM3Z8V2ST1
RD10ESB2
RD13ES-B2
RD15ES-B1
RD18ES-B2
RD2.2ES-B2
RD36ES-B2
RD5.1ESB2
RD7.5ES-B2
1SS133T-77



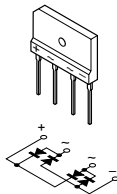
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D10SC4M-F
D10SC6M-4012



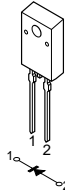
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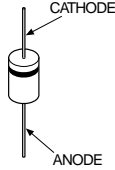
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D4SBL20U
D4SBS4
D4SBS4-F
D6SB60L
RBA-406B
RBV-406B



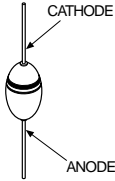
D5L60



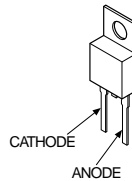
ERC04-06SE



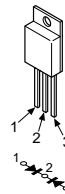
ERC38-06



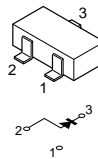
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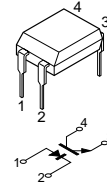
FMG-36S-LF024-104



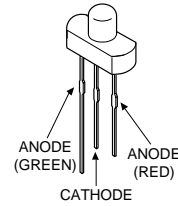
MA3062M-TX
MA3220M-TX



ON3171-R



SPR-325MVW



SECTION 7 EXPLODED VIEWS

NOTE:

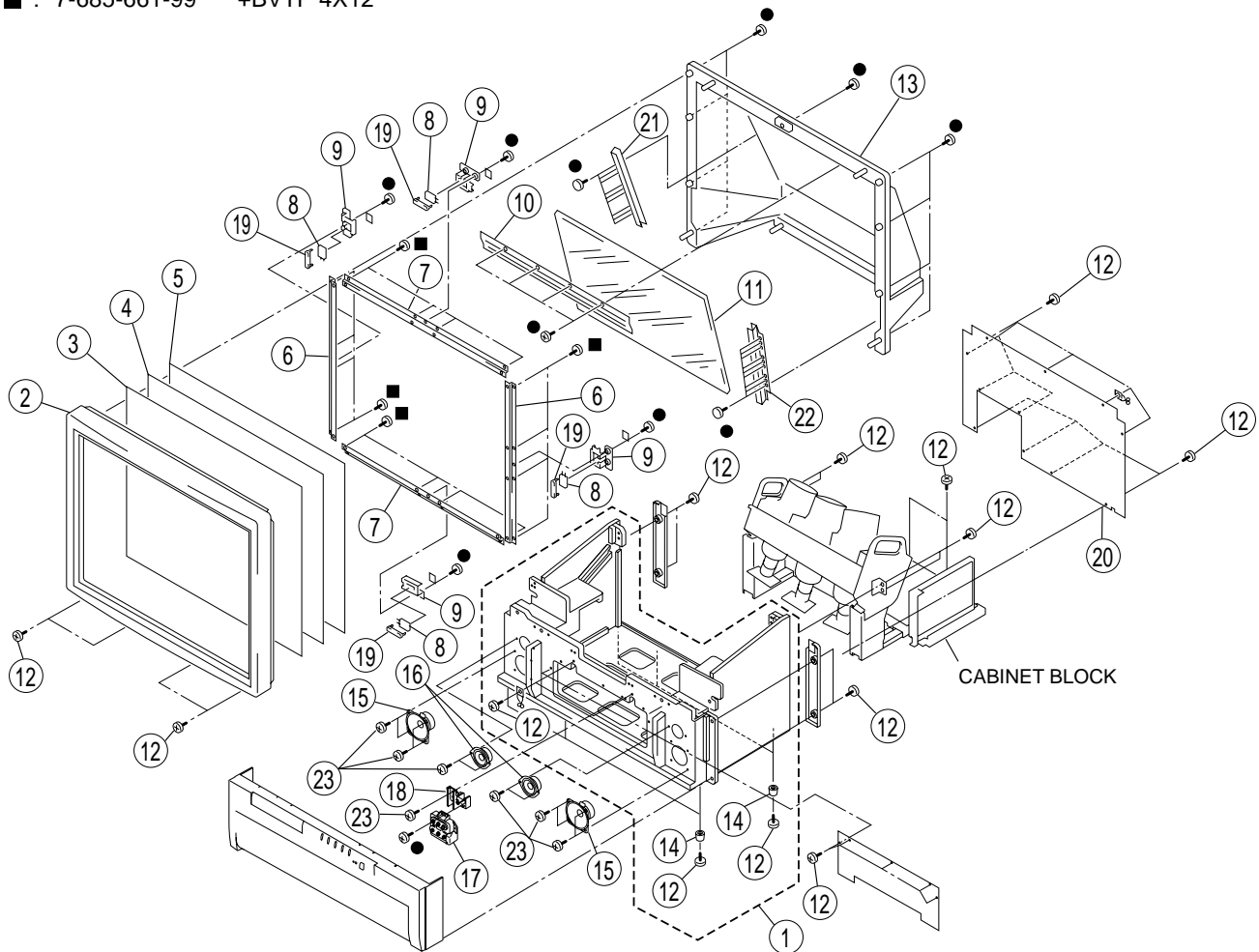
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-1. SCREEN AND COVER BLOCK (KP-ER43)

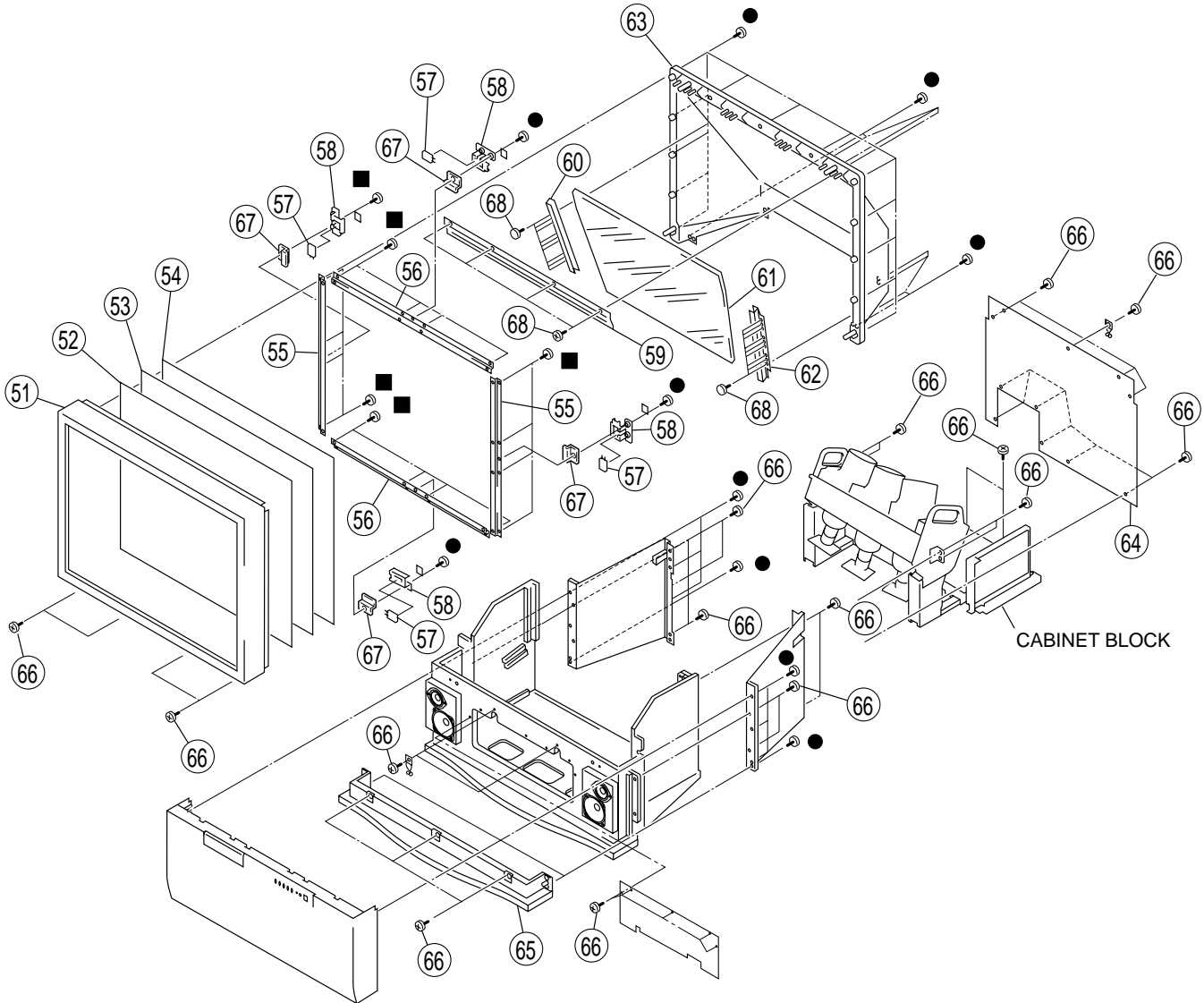
- : 7-685-663-91 +BVTP 4X16
- : 7-685-661-99 +BVTP 4X12



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|---------------|------------------------------|--------|---------|--------------------------|------------------------------|--------|
| 1 | *X-4040-018-1 | CABINET (43) ASSY | | 13 | *4-076-588-11 | COVER (43), MIRROR | |
| 2 | X-4040-017-1 | BEZEL (43) ASSY | | 14 | 4-076-577-01 | FOOT | |
| 3 | 4-084-649-11 | SCREEN (43), CONTRAST | | 15 | 1-544-888-11 | SPEAKER (10CM) | |
| 4 | 4-075-439-11 | PLATE (43L), DIFFUSION | | 16 | 1-529-403-31 | SPEAKER (6.6CM) | |
| 5 | 4-070-285-11 | PLATE (43F), DIFFUSION | | 17 | \triangle 1-223-925-81 | RESISTOR ASSY (FOCUS PACK) | |
| 6 | *4-076-698-31 | HOLDER, SCREEN | | 18 | *4-076-722-01 | BRACKET, FP | |
| 7 | *4-076-698-21 | HOLDER, SCREEN | | 19 | *4-085-279-01 | COVER, SENSOR | |
| 8 | 1-528-864-11 | BATTERY, SOLAR | | 20 | *4-076-578-01 | BOARD (43), REAR | |
| 9 | *4-066-132-01 | HOLDER, SENSOR | | 21 | *4-087-085-01 | MIRROR HOLDER (SL) | |
| 10 | *4-066-129-01 | HOLDER, MIRROR | | 22 | *4-087-086-01 | MIRROR HOLDER (SR) | |
| 11 | 4-084-720-01 | MIRROR (43) | | 23 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 12 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | | | | | |

7-2. SCREEN AND COVER BLOCK (KP-ER53)

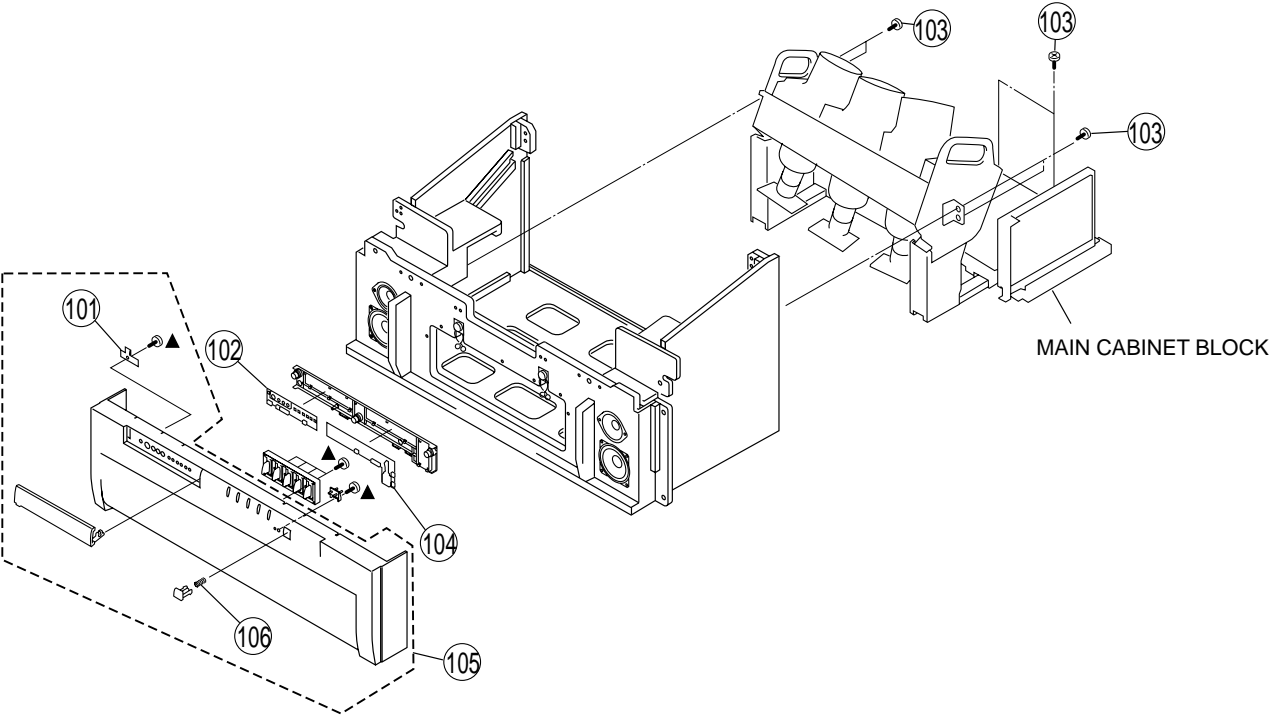
- : 7-685-661-99 +BVTP 4X12
● : 7-685-663-91 +BVTP 4X16



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|---------------|-------------------------|--------|---------|---------------|------------------------------|--------|
| 51 | X-4040-020-1 | BEZEL (53) ASSY | | 61 | 4-070-344-01 | MIRROR, REFLECTION | |
| 52 | 4-084-651-11 | SCREEN (53), CONTRAST | | 62 | *4-076-706-01 | HOLDER (SR), MIRROR | |
| 53 | 4-070-525-11 | PLATE (L), DIFFUSION | | 63 | *4-081-503-01 | COVER, MIRROR | |
| 54 | 4-084-703-11 | PLATE (53FV), DIFFUSION | | 64 | *4-087-603-11 | BOARD (53), REAR | |
| 55 | *4-075-270-01 | HOLDER (53) S, SCREEN | | 65 | *4-084-936-01 | SKIRT, FRONT | |
| 56 | *4-075-269-02 | HOLDER (53) L, SCREEN | | 66 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | |
| 57 | 1-528-864-11 | BATTERY, SOLAR | | 67 | *4-085-279-01 | COVER, SENSOR | |
| 58 | *4-066-132-01 | HOLDER, SENSOR | | 68 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 59 | *4-075-234-01 | HOLDER (TOP), MIRROR | | | | | |
| 60 | *4-076-705-01 | HOLDER (SL), MIRROR | | | | | |

7-3. CABINET AND PANEL BLOCK (KP-ER43)

▲ : 7-685-648-79 +BVTP 3X12

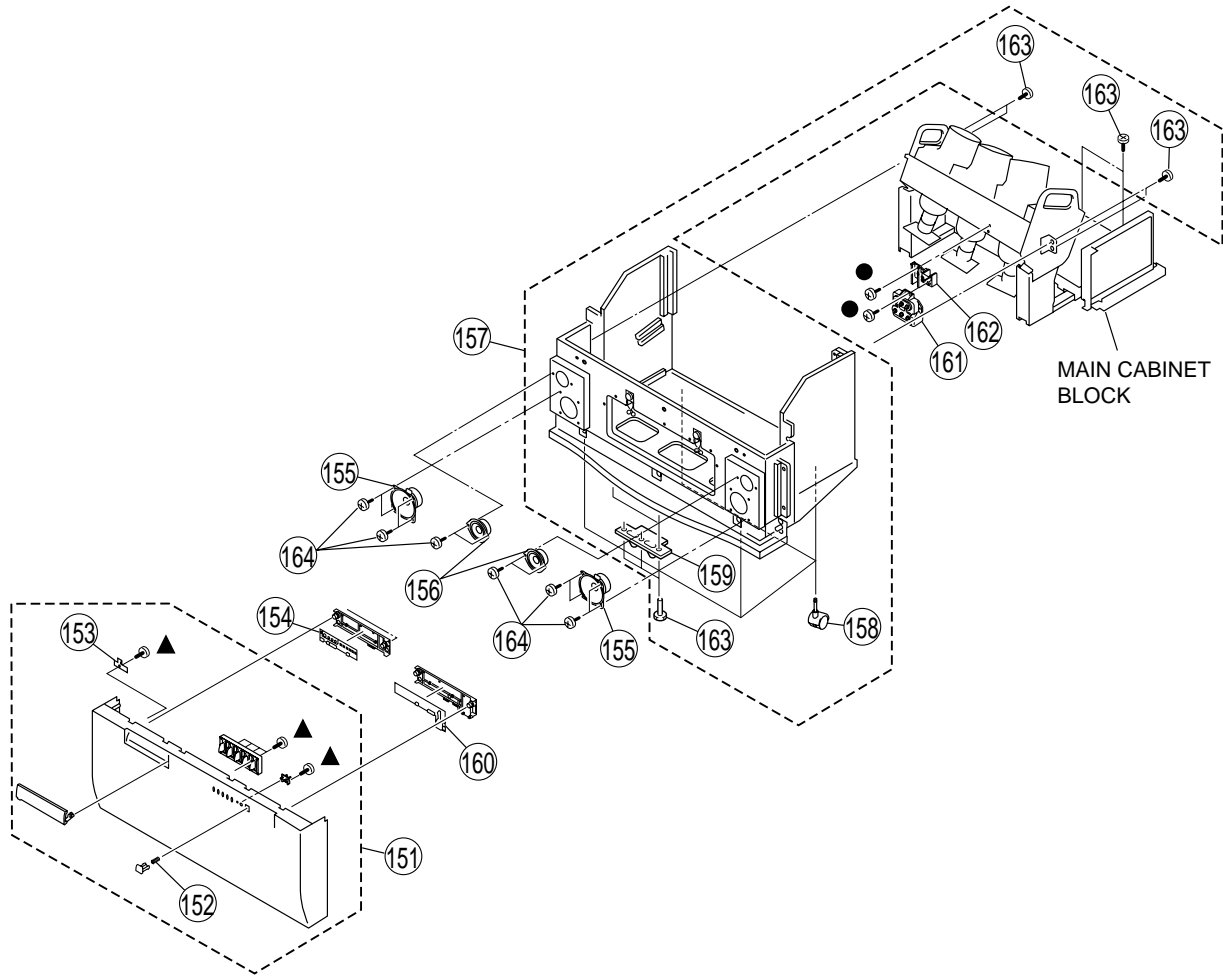


| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|------------------------------|---------|---------|--------------|---------------------|--------|
| 101 | 4-066-712-01 | SPRING (A) | | | | | |
| 102 | * A-1400-529-A | H2 BOARD, COMPLETE | | | | | |
| 103 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | | 106 | 4-066-103-11 | SPRING, COMPRESSION | |
| 104 | * A-1400-528-A | H1 BOARD, COMPLETE | | | | | |
| 105 | X-4040-016-1 | GRILLE (43) ASSY, SPEAKER | 101,106 | | | | |

7-4. CABINET AND PANEL BLOCK (KP-ER53)

- ▼ : 7-621-846-60 +BTP 4.1X25
 ▲ : 7-685-648-79 +BTP 3X12
 ● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark ▲ are critical for safety.
 Replace only with part number specified.

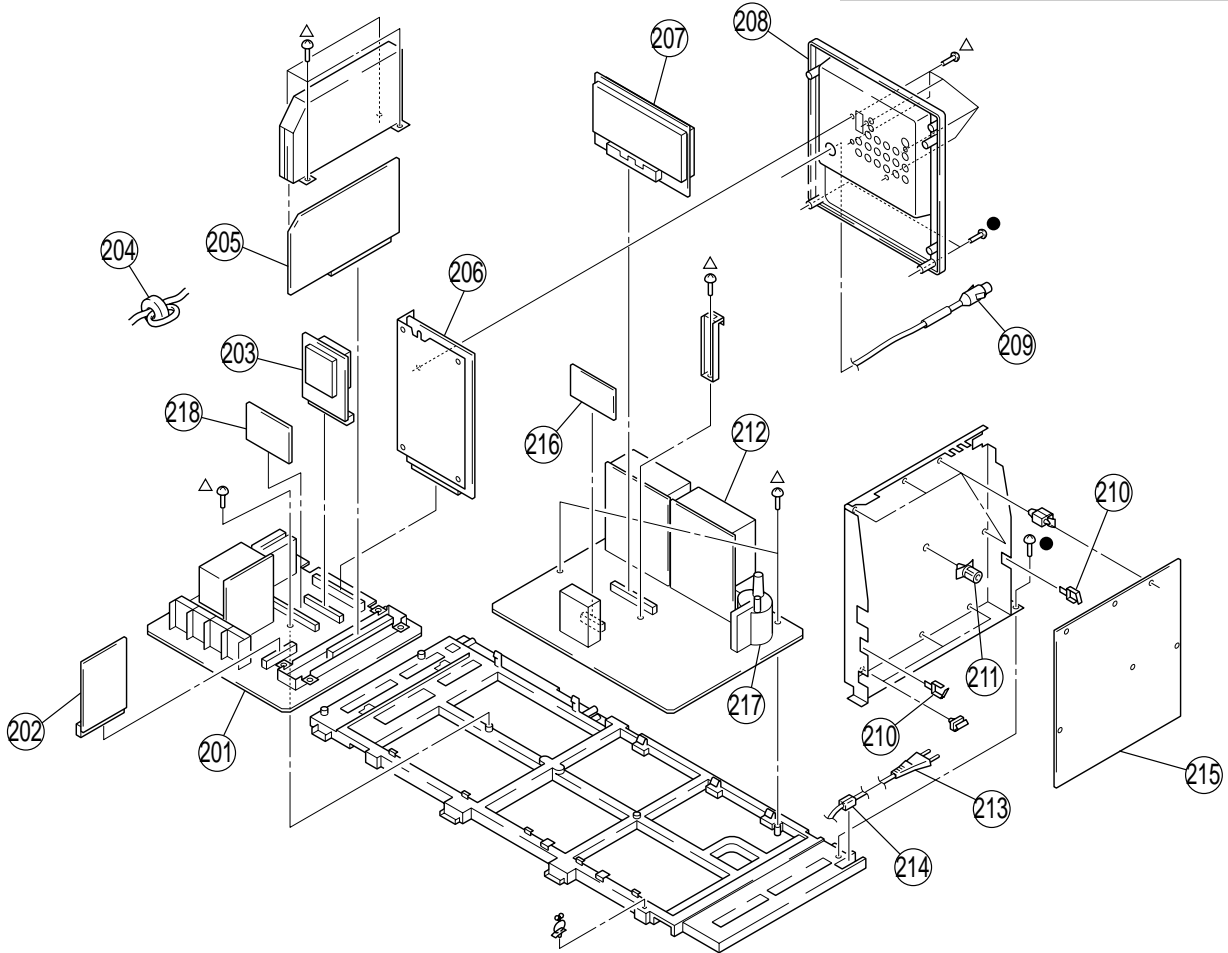


| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|---------------------------|-------------|---------|----------------|------------------------------|--------|
| 151 | X-4040-021-1 | GRILLE (53) ASSY, SPEAKER | 152,153 | 161 | ▲ 1-223-925-71 | RESISTOR ASSY (FOCUS PACK) | |
| 152 | 4-066-103-11 | SPRING, COMPRESSION | | 162 | * 4-054-825-11 | BRACKET, FOCUS PACK | |
| 153 | 4-066-712-01 | SPRING (A) | | 163 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | |
| 154 | * A-1400-529-A | H2 BOARD, COMPLETE | | 164 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 155 | 1-544-849-11 | SPEAKER (13CM) | | | | | |
| 156 | 1-529-403-31 | SPEAKER (6.6CM) | | | | | |
| 157 | * X-4040-019-1 | CABINET (53) ASSY | 158,159,163 | | | | |
| 158 | 4-075-244-01 | CASTER (30 DIA.) | | | | | |
| 159 | 4-085-858-11 | FOOT, FRONT | | | | | |
| 160 | * A-1400-528-A | H1 BOARD, COMPLETE | | | | | |

7-5. MAIN BRACKET BLOCK

△ : 7-685-648-79 +BVTP 3X12
● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark △ are critical for safety.
Replace only with part number specified.

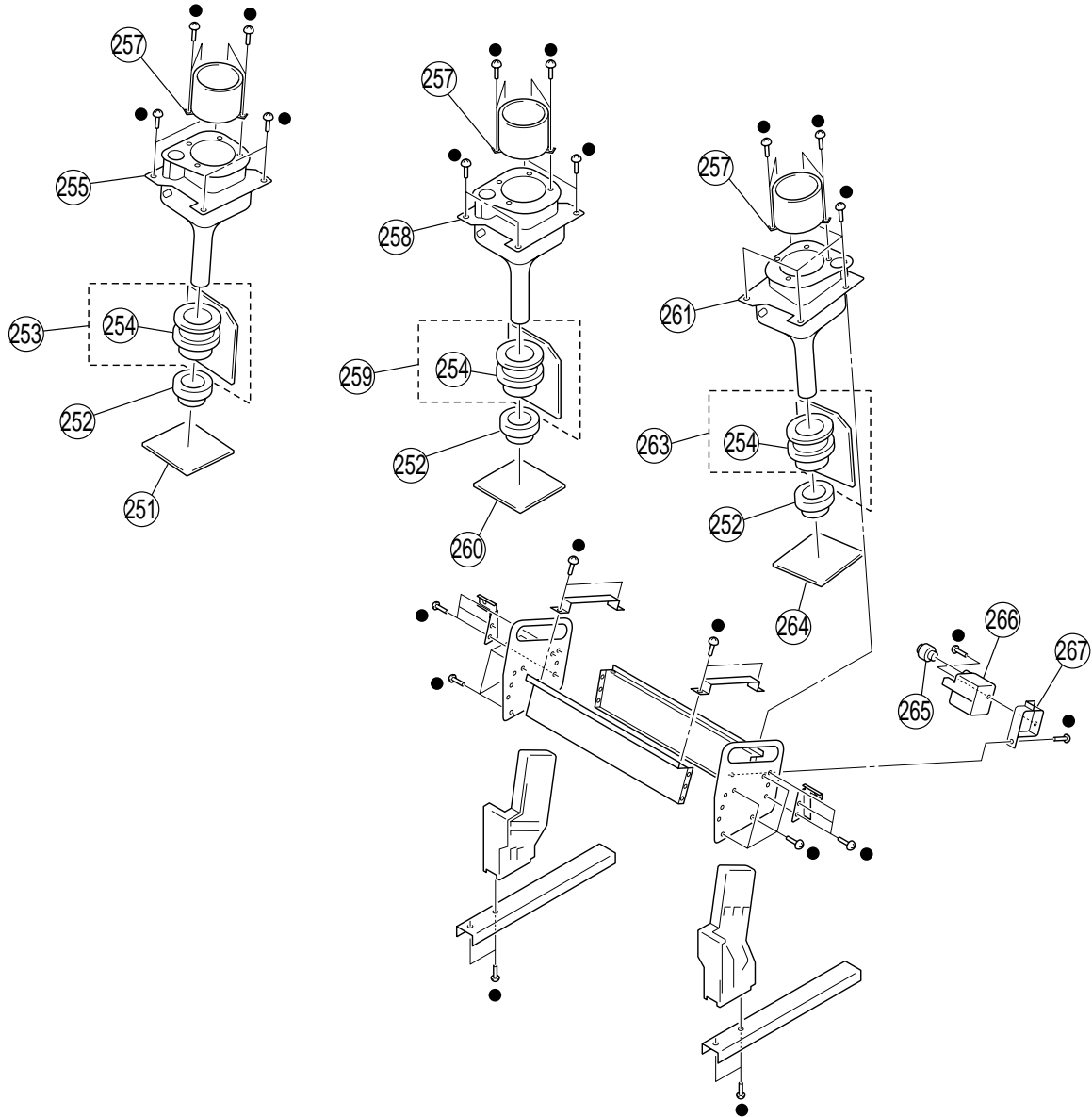


| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|--|--------|---------|----------------|--|--------|
| 201 | A-1300-349-A | A1 BOARD, COMPLETE (ER43M90, ER53M90) | | 211 | * 4-046-677-11 | HOLDER (B), PWB | |
| 201 | A-1300-350-A | A1 BOARD, COMPLETE (ER43M31/M61/M91, ER53M31/M61/M91) | | 212 | * A-1346-924-A | D BOARD, COMPLETE (ER53M31/M61/M90/M91) | |
| 202 | * A-1346-922-A | E BOARD, COMPLETE | | 212 | * A-1346-937-A | D BOARD, COMPLETE (ER43M31/M61/M90/M91) | |
| 203 | * A-1300-347-A | M1 BOARD, COMPLETE (ER43M61/M90/M91) | | 213 | △ 1-574-062-52 | CORD, POWER (WITH CONNECTOR) (ER43M61/M91, ER53M61/M91) | |
| 203 | * A-1300-348-A | M1 BOARD, COMPLETE (ER43M31) | | 213 | △ 1-792-002-11 | CORD, POWER (WITH FILTER) (ER43M90, ER53M90) | |
| 203 | * A-1300-351-A | M1 BOARD, COMPLETE (ER53M61/M90/M91) | | 213 | △ 1-792-035-11 | CORD, POWER (WITH FILTER) (ER43M31, ER53M31) | |
| 203 | * A-1300-352-A | M1 BOARD, COMPLETE (ER53M31) | | 214 | 4-022-115-00 | HOLDER, AC CORD | |
| 204 | 1-543-982-11 | CORE, FERRITE | | 215 | * A-1316-514-A | G1 BOARD, COMPLETE (ER43M61/M91, ER53M61/M91) | |
| 205 | * A-1136-087-A | B3 BOARD, COMPLETE | | 215 | * A-1316-528-A | G BOARD, COMPLETE (ER43M31/M90, ER53M31/M90) | |
| 206 | * A-1385-192-A | J1 BOARD, COMPLETE (ER43M91, ER53M91) | | 216 | * A-1343-830-A | DS BOARD, COMPLETE | |
| 206 | * A-1394-982-A | J1 BOARD, COMPLETE (ER43M31/M61/M90, ER53M31/M61/M90) | | 217 | △ 1-453-335-11 | FBT ASSY (NX-4010/M3P4) | |
| 207 | * A-1136-088-A | BD BOARD, COMPLETE | | 218 | * A-1136-193-A | BC4 BOARD, COMPLETE | |
| 208 | 4-076-679-02 | BOARD, TERMINAL | | | | | |
| 209 | 1-790-082-12 | CABLE, RF | | | | | |
| 210 | * 4-316-015-00 | HOLDER, WIRE | | | | | |

7-6. PICTURE TUBE BLOCK

● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|-----------------------|---|--------|---------|-----------------------|---|--------|
| 251 | * A-1332-037-A | CR BOARD, COMPLETE | | 260 | * A-1332-038-A | CG BOARD, COMPLETE | |
| 252 | Δ 1-452-790-41 | NECK ASSY (NA-295) | | 261 | Δ 8-733-574-15 | CRT 07MAC2(B)(C/D CPL) (ER43M31/M61/M90/M91) | |
| 253 | * A-1391-025-A | ZR BOARD, COMPLETE | | 261 | Δ 8-733-575-15 | CRT 07MAC3(B)(C/D CPL) (ER53M31/M61/M90/M91) | |
| 254 | Δ 1-451-476-21 | DY | | 263 | * A-1391-027-A | ZB BOARD, COMPLETE | |
| 255 | Δ 8-733-571-35 | CRT 07MXC2(R)(NEW GUN) (ER43M31/M61/M90/M91) | | 264 | * A-1332-039-A | CB BOARD, COMPLETE | |
| 255 | Δ 8-733-572-35 | CRT 07MXC3(R)(NEW GUN) (ER53M31/M61/M90/M91) | | 265 | 4-373-137-01 | CAP (Z), RUBBER | |
| 257 | 4-056-258-11 | LENS (DELTA 78) | | 266 | Δ 8-598-955-13 | BLOCK ASSY, HV HVB-1030 | |
| 258 | Δ 8-733-570-35 | CRT 07MXC2(G)(NEW GUN) | | 267 | * 4-066-144-03 | HOLDER, HVR (ER53M31/M61/M90/M91) | |
| 259 | * A-1391-026-A | ZG BOARD, COMPLETE | | | | | |



SECTION 8

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by \square in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS
PF : μ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|---|---|---------|--------------------------|--|--------|
| | | * A-1400-528- A H1 BOARD, COMPLETE ***** | | R3011 | 1-216-049-11 | RES-CHIP 1K 5% 1/10W | |
| | | <CAPACITOR> | | R3012 | 1-216-033-00 | RES-CHIP 220 5% 1/10W | |
| C3001 | 1-126-157-11 | ELECT 10UF 20.00% 16V | | | | <SWITCH> | |
| | | <CONNECTOR> | | S3001 | 1-572-198-11 | SWITCH, KEYBOARD (PROG+) | |
| CN3001 | * 1-691-292-11 | PIN, CONNECTOR (PC BOARD) 3P | | S3002 | 1-572-198-11 | SWITCH, KEYBOARD (PROG-) | |
| CN3002 | * 1-580-690-11 | PIN, CONNECTOR (PC BOARD) 4P | | S3003 | 1-572-198-11 | SWITCH, KEYBOARD (VOL+) | |
| CN3003 | * 1-564-519-11 | PLUG, CONNECTOR 4P | | S3004 | 1-572-198-11 | SWITCH, KEYBOARD (VOL-) | |
| CN3004 | * 1-564-525-11 | PLUG, CONNECTOR 10P | | S3005 | 1-572-198-11 | SWITCH, KEYBOARD (TV/VIDEO) | |
| | | <DIODE> | | S3006 | \triangle 1-571-433-21 | SWITCH, PUSH (AC POWER)(POWER) | |
| | | D3003 | 8-719-064-11 DIODE SPR-325MVW (ON/STANDBY/TIMER) | | | ***** | |
| | | <IC> | | | | * A-1400-529-A H2 BOARD, COMPLETE ***** | |
| IC3001 | 8-742-211-20 | IC SBX3071-71(20) | | | | <CAPACITOR> | |
| | | <TRANSISTOR> | | C3203 | 1-163-037-11 | CERAMIC CHIP 0.022UF 10.00% 50V | |
| Q3001 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C3204 | 1-163-037-11 | CERAMIC CHIP 0.022UF 10.00% 50V | |
| Q3002 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C3205 | 1-126-157-11 | ELECT 10UF 20.00% 16V | |
| | | <RESISTOR> | | C3206 | 1-163-037-11 | CERAMIC CHIP 0.022UF 10.00% 50V | |
| R3001 | 1-216-047-91 | RES-CHIP 820 5% 1/10W | | | | <CONNECTOR> | |
| R3002 | 1-216-049-11 | RES-CHIP 1K 5% 1/10W | | CN3201 | * 1-564-526-31 | PLUG, CONNECTOR 11P | |
| R3003 | 1-216-051-00 | RES-CHIP 1.2K 5% 1/10W | | CN3203 | * 1-564-520-11 | PLUG, CONNECTOR 5P | |
| R3004 | 1-216-055-00 | RES-CHIP 1.8K 5% 1/10W | | CN3204 | * 1-564-519-11 | PLUG, CONNECTOR 4P | |
| R3005 | 1-216-061-91 | RES-CHIP 3.3K 5% 1/10W | | | | <DIODE> | |
| R3006 | 1-216-041-00 | RES-CHIP 470 5% 1/10W | | D3206 | 8-719-977-22 | DIODE DTZ9.1 | |
| R3007 | 1-216-073-91 | RES-CHIP 10K 5% 1/10W | | | | <JACK> | |
| R3008 | 1-216-049-11 | RES-CHIP 1K 5% 1/10W | | J3201 | 1-764-073-11 | TERMINAL BLOCK, S 4P(VIDEO IN 3) | |
| R3009 | 1-216-073-91 | RES-CHIP 10K 5% 1/10W | | J3202 | 1-691-293-31 | JACK (HEAD PHONE) | |
| R3010 | 1-216-037-00 | RES-CHIP 330 5% 1/10W | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------------------|-----------------|---------|--------------|-----------------------|-----------------|
| | | <COIL> | | | | | |
| L3201 | 1-408-615-31 | INDUCTOR | 100UH | C2619 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V |
| L3202 | 1-408-615-31 | INDUCTOR | 100UH | C2620 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | <TRANSISTOR> | | C2621 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| Q3201 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C2622 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | <RESISTOR> | | C2623 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R3201 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C2624 | 1-164-161-11 | CERAMIC CHIP 0.0022UF | 10.00% 50V |
| R3202 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C2625 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R3203 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C2626 | 1-115-339-11 | CERAMIC CHIP 0.1UF | 10.00% 50V |
| R3204 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C2627 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R3205 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C2628 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R3206 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C2631 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V |
| R3207 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C2633 | 1-115-339-11 | CERAMIC CHIP 0.1UF | 10.00% 50V |
| R3208 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C2635 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R3209 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W | C2636 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R3210 | 1-216-051-00 | RES-CHIP | 1.2K 5% 1/10W | C2637 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V |
| R3211 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C2639 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R3212 | 1-216-295-91 | SHORT | 0 | C2640 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R3213 | 1-216-295-91 | SHORT | 0 | C2641 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R3214 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C2643 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | <SWITCH> | | C2644 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V |
| S3201 | 1-572-198-11 | SWITCH, KEYBOARD (ENTER) | | C2645 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| S3202 | 1-572-198-11 | SWITCH, KEYBOARD (MENU) | | C2647 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| S3203 | 1-572-198-11 | SWITCH, KEYBOARD (MENU+) | | C2648 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| S3204 | 1-572-198-11 | SWITCH, KEYBOARD (MENU-) | | C2649 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| S3205 | 1-572-198-11 | SWITCH, KEYBOARD (AUTO PROGR) | | C2650 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| S3206 | 1-572-198-11 | SWITCH, KEYBOARD (AUTO CONVER) | | C2651 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | ***** | | C2652 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | * A-1136-088-A BD BOARD, COMPLETE | | C2655 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V |
| | | ***** | | C2656 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | <CAPACITOR> | | C2658 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2601 | 1-126-947-11 | ELECT | 47UF 20.00% 25V | C2659 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2602 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V | C2660 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| C2603 | 1-126-947-11 | ELECT | 47UF 20.00% 25V | C2661 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V |
| C2604 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2662 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2607 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V | C2663 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| C2608 | 1-126-947-11 | ELECT | 47UF 20.00% 25V | C2666 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2609 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2667 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V |
| C2610 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2668 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2611 | 1-126-947-11 | ELECT | 47UF 20.00% 25V | C2670 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| C2612 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2673 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2613 | 1-126-947-11 | ELECT | 47UF 20.00% 25V | C2674 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2615 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2675 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2616 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2678 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V |
| C2617 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2679 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| C2618 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2680 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | | | C2681 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | | | C2683 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | | | C2685 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | | | C2686 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V |
| | | | | C2689 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | | | C2690 | 1-126-967-11 | ELECT | 47UF 20.00% 50V |
| | | | | C2691 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | | | C2692 | 1-126-967-11 | ELECT | 47UF 20.00% 50V |
| | | | | C2693 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| | | | | C2694 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | | | C2695 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|-------------|---------|--------------|-----------------------|------------|
| C2696 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2764 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2697 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | C2765 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V |
| C2698 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2699 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2766 | 1-163-016-00 | CERAMIC CHIP 0.0039UF | 10.00% 50V |
| C2700 | 1-163-001-11 | CERAMIC CHIP 220PF | 10.00% 50V | C2767 | 1-163-016-00 | CERAMIC CHIP 0.0039UF | 10.00% 50V |
| C2701 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C2768 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2705 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V | C2769 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C2706 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2770 | 1-163-263-11 | CERAMIC CHIP 330PF | 5.00% 50V |
| C2707 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2708 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2771 | 1-163-016-00 | CERAMIC CHIP 0.0039UF | 10.00% 50V |
| C2709 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | C2772 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2710 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V | C2773 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2711 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V | C2774 | 1-163-016-00 | CERAMIC CHIP 0.0039UF | 10.00% 50V |
| C2713 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2775 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C2714 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | C2776 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C2715 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 20.00% 100V | C2777 | 1-163-263-11 | CERAMIC CHIP 330PF | 5.00% 50V |
| C2716 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C2778 | 1-163-263-11 | CERAMIC CHIP 330PF | 5.00% 50V |
| C2717 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | C2779 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V |
| C2718 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C2780 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V |
| C2719 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | | | | |
| C2720 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | C2781 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2721 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V | C2782 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C2724 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V | | | | |
| C2725 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2726 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | | | | |
| C2727 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | | | | |
| C2728 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V | | | | |
| C2729 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V | | | | |
| C2730 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | | | | |
| C2731 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | | | | |
| C2733 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2737 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V | | | | |
| C2738 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2739 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2740 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2741 | 1-163-237-11 | CERAMIC CHIP 27PF | 5.00% 50V | | | | |
| C2742 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | | | | |
| C2744 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2745 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | | | | |
| C2746 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | | | | |
| C2747 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | | | | |
| C2748 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V | | | | |
| C2749 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2750 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V | | | | |
| C2751 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V | | | | |
| C2753 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2754 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2755 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2756 | 1-126-947-11 | ELECT 47UF | 20.00% 25V | | | | |
| C2757 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2758 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2759 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2760 | 1-163-235-11 | CERAMIC CHIP 22PF | 5.00% 50V | | | | |
| C2761 | 1-163-263-11 | CERAMIC CHIP 330PF | 5.00% 50V | | | | |
| C2762 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | | | | |
| C2763 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|------------------|--------------|---------------------|--------|--------------|--------------|-----------------------------|--------|
| <FERRITBEAD> | | | | L2622 | 1-414-234-22 | FERRITE | 0UH |
| FB2601 | 1-216-295-91 | SHORT | 0 | L2625 | 1-414-234-22 | FERRITE | 0UH |
| FB2602 | 1-216-295-91 | SHORT | 0 | L2626 | 1-469-555-21 | INDUCTOR | 10UH |
| FB2603 | 1-216-295-91 | SHORT | 0 | L2627 | 1-414-234-22 | FERRITE | 0UH |
| FB2604 | 1-216-295-91 | SHORT | 0 | L2628 | 1-469-555-21 | INDUCTOR | 10UH |
| <IC> | | | | L2629 | 1-414-234-22 | FERRITE | 0UH |
| IC2601 | 8-759-106-02 | IC UPC4570G2 | | L2633 | 1-412-029-11 | INDUCTOR | 10UH |
| IC2602 | 8-759-998-22 | IC PCM56P | | L2634 | 1-414-234-22 | FERRITE | 0UH |
| IC2603 | 8-759-106-02 | IC UPC4570G2 | | L2635 | 1-414-234-22 | FERRITE | 0UH |
| IC2604 | 8-759-998-22 | IC PCM56P | | L2636 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2605 | 8-759-589-66 | IC CM0006CF | | L2637 | 1-414-234-22 | FERRITE | 0UH |
| IC2606 | 8-759-485-79 | IC TC7SET08FU(TE85L | | L2638 | 1-414-234-22 | FERRITE | 0UH |
| IC2607 | 8-759-673-51 | IC MM74HC32SJX | | L2639 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2608 | 8-759-106-02 | IC UPC4570G2 | | L2640 | 1-414-234-22 | FERRITE | 0UH |
| IC2609 | 8-759-998-22 | IC PCM56P | | L2643 | 1-414-234-22 | FERRITE | 0UH |
| IC2610 | 8-759-106-02 | IC UPC4570G2 | | L2645 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2611 | 8-759-488-29 | IC TC7W66FU(TE12R) | | L2646 | 1-414-234-22 | FERRITE | 0UH |
| IC2612 | 8-759-669-75 | IC TLC2932IPWR | | L2647 | 1-414-234-22 | FERRITE | 0UH |
| IC2613 | 8-759-925-90 | IC SN74HC74ANS | | L2648 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2614 | 8-759-998-22 | IC PCM56P | | L2649 | 1-412-029-11 | INDUCTOR | 10UH |
| IC2615 | 8-759-485-79 | IC TC7SET08FU(TE85L | | L2652 | 1-414-234-22 | FERRITE | 0UH |
| IC2616 | 8-759-106-02 | IC UPC4570G2 | | L2653 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2617 | 8-759-352-91 | IC PST9143NL | | L2654 | 1-414-234-22 | FERRITE | 0UH |
| IC2618 | 8-759-038-15 | IC MC74HC4538AF | | L2656 | 1-469-555-21 | INDUCTOR | 10UH |
| IC2619 | 8-752-916-83 | IC CXP86324-028Q | | L2657 | 1-414-234-22 | FERRITE | 0UH |
| IC2620 | 8-759-367-69 | IC MC74HC74AFEL | | L2658 | 1-414-234-22 | FERRITE | 0UH |
| IC2621 | 8-759-564-06 | IC M24C32-MN6T | | L2659 | 1-414-234-22 | FERRITE | 0UH |
| IC2622 | 8-759-106-02 | IC UPC4570G2 | | L2661 | 1-414-234-22 | FERRITE | 0UH |
| IC2623 | 8-759-998-22 | IC PCM56P | | L2663 | 1-414-234-22 | FERRITE | 0UH |
| IC2625 | 8-759-998-22 | IC PCM56P | | L2664 | 1-414-234-22 | FERRITE | 0UH |
| IC2626 | 8-759-394-80 | IC NJM2058M-TE2 | | L2665 | 1-216-295-91 | SHORT | 0 |
| IC2627 | 8-759-394-80 | IC NJM2058M-TE2 | | L2666 | 1-216-295-91 | SHORT | 0 |
| <CHIP CONDUCTOR> | | | | L2667 | 1-216-295-91 | SHORT | 0 |
| JR2605 | 1-216-295-91 | SHORT | 0 | L2668 | 1-216-295-91 | SHORT | 0 |
| <COIL> | | | | L2669 | 1-216-295-91 | SHORT | 0 |
| L2601 | 1-414-234-22 | FERRITE | 0UH | L2670 | 1-216-295-91 | SHORT | 0 |
| L2602 | 1-414-234-22 | FERRITE | 0UH | <TRANSISTOR> | | | |
| L2605 | 1-469-555-21 | INDUCTOR | 10UH | Q2601 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L2606 | 1-414-234-22 | FERRITE | 0UH | Q2602 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L2608 | 1-469-555-21 | INDUCTOR | 10UH | Q2603 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2609 | 1-414-234-22 | FERRITE | 0UH | Q2604 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L2610 | 1-414-234-22 | FERRITE | 0UH | Q2605 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L2611 | 1-412-029-11 | INDUCTOR | 10UH | Q2606 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L2612 | 1-414-234-22 | FERRITE | 0UH | Q2607 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L2615 | 1-414-234-22 | FERRITE | 0UH | Q2608 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2616 | 1-414-234-22 | FERRITE | 0UH | Q2610 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2617 | 1-469-555-21 | INDUCTOR | 10UH | Q2611 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2618 | 1-469-555-21 | INDUCTOR | 10UH | Q2612 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2619 | 1-414-234-22 | FERRITE | 0UH | Q2613 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| L2621 | 1-414-234-22 | FERRITE | 0UH | Q2614 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|---------|--------------|-------------|-----------------|
| | | <RESISTOR> | | | | | |
| R2601 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2672 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2602 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2673 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2603 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2674 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2606 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2675 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2607 | 1-216-295-91 | SHORT | 0 | R2676 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2608 | 1-216-295-91 | SHORT | 0 | R2677 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2609 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2678 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2610 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2679 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2611 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2680 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2612 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2681 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2613 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2682 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2621 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2683 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2622 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2684 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| R2623 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2685 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2624 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R2688 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W |
| R2625 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2689 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2628 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2690 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| R2629 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2691 | 1-216-295-91 | SHORT | 0 |
| R2630 | 1-216-685-11 | METAL CHIP | 27K 0.5% 1/10W | R2692 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R2631 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R2693 | 1-216-295-91 | SHORT | 0 |
| R2632 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2694 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2634 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2695 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R2635 | 1-208-802-11 | METAL CHIP | 6.8K 0.5% 1/10W | R2698 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W |
| R2636 | 1-216-295-91 | SHORT | 0 | R2699 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2637 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | R2701 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R2638 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2703 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W |
| R2639 | 1-208-801-11 | METAL CHIP | 6.2K 0.5% 1/10W | R2704 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2640 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2705 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2641 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2706 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W |
| R2643 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2707 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R2644 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | R2708 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2645 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2709 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2646 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2710 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2647 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2712 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W |
| R2648 | 1-216-295-91 | SHORT | 0 | R2714 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R2649 | 1-216-295-91 | SHORT | 0 | R2715 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2650 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2716 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2651 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2717 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| R2652 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2719 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| R2653 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2720 | 1-216-295-91 | SHORT | 0 |
| R2654 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | R2721 | 1-216-295-91 | SHORT | 0 |
| R2655 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2723 | 1-208-793-11 | METAL CHIP | 3K 0.5% 1/10W |
| R2657 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2725 | 1-208-776-11 | METAL CHIP | 560 0.5% 1/10W |
| R2658 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2726 | 1-208-790-11 | METAL CHIP | 2.2K 0.5% 1/10W |
| R2659 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2728 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2661 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R2729 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2662 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2730 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2663 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2731 | 1-208-850-11 | METAL CHIP | 680K 0.5% 1/10W |
| R2664 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2732 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W |
| R2665 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2733 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2666 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2734 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2667 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2735 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2668 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2736 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2669 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2737 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2671 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2738 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | R2739 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|-----------------------------------|--------------|---------------------------|-------------------|
| R2740 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2809 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2741 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2810 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2742 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2811 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2743 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R2744 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2812 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2745 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2813 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2746 | 1-208-850-11 | METAL CHIP | 680K 0.5% 1/10W | R2814 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2747 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2815 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2750 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2818 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| R2751 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2821 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2752 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2823 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2753 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2824 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2755 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R2825 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2756 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R2826 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| | | | | | | | |
| R2758 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2827 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R2759 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2831 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2760 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | R2832 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2761 | 1-216-295-91 | SHORT | 0 | R2834 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2762 | 1-216-295-91 | SHORT | 0 | R2835 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| R2763 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2836 | 1-218-773-11 | RES-CHIP | 750K 5% 1/10W |
| R2764 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2837 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2765 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2838 | 1-216-122-11 | RES-CHIP | 1.1M 5% 1/10W |
| R2766 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2839 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2767 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2840 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| R2768 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R2841 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2769 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2842 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2771 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R2843 | 1-216-295-91 | SHORT | 0 |
| R2773 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2844 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2774 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R2845 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| | | | | | | | |
| R2775 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2846 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2777 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2847 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2778 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2848 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2779 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2849 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R2781 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | R2850 | 1-216-124-11 | RES-CHIP | 1.3M 5% 1/10W |
| | | | | | | | |
| R2782 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R2851 | 1-216-124-11 | RES-CHIP | 1.3M 5% 1/10W |
| R2783 | 1-216-295-91 | SHORT | 0 | R2852 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R2784 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R2853 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R2785 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R2872 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R2786 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R2873 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | | | | |
| R2787 | 1-208-782-11 | METAL CHIP | 1K 0.5% 1/10W | <CRYSTAL> | | | |
| R2789 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | X2701 | 1-767-925-21 | VIBRATOR, CRYSTAL (12MHZ) | |
| R2790 | 1-208-798-11 | METAL CHIP | 4.7K 0.5% 1/10W | ***** | | | |
| R2791 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R2792 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | | | | |
| | | | | | | | |
| R2793 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | * A-1343-830-A DS BOARD, COMPLETE | | | |
| R2794 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | ***** | | | |
| R2796 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R2797 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | <CAPACITOR> | | | |
| R2799 | 1-208-810-11 | METAL CHIP | 15K 0.5% 1/10W | | | | |
| | | | | | | | |
| R2800 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C3501 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R2803 | 1-208-799-11 | METAL CHIP | 5.1K 0.5% 1/10W | C3502 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R2804 | 1-216-295-91 | SHORT | 0 | C3503 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R2805 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C3504 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| R2806 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C3505 | 1-126-947-11 | ELECT | 47UF 20.00% 25V |
| | | | | | | | |
| R2807 | 1-216-295-91 | SHORT | 0 | C3506 | 1-163-275-11 | CERAMIC CHIP | 0.001UF 5.00% 50V |
| R2808 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C3507 | 1-126-964-11 | ELECT | 10UF 20.00% 50V |
| | | | | C3508 | 1-107-714-11 | ELECT | 10UF 20.00% 16V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | | | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------|----------------|---------------------------|---------|--------|-------|---------------------------------------|--------------|--------------|----------|--------|-------|
| C3509 | 1-137-350-11 | MYLAR | 0.015UF | 5.00% | 50V | R3538 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| C3510 | 1-163-038-91 | CERAMIC CHIP | 0.1UF | | 25V | R3541 | 1-216-079-00 | RES-CHIP | 18K | 5% | 1/10W |
| C3511 | 1-163-038-91 | CERAMIC CHIP | 0.1UF | | 25V | ***** | | | | | |
| C3512 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | * A-1346-924-A D BOARD, COMPLETE | | | | | |
| C3513 | 1-163-038-91 | CERAMIC CHIP | 0.1UF | | 25V | (ER53M31/M61/M90/M91) | | | | | |
| C3514 | 1-163-038-91 | CERAMIC CHIP | 0.1UF | | 25V | ***** | | | | | |
| C3515 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | * A-1346-937-A D BOARD, COMPLETE | | | | | |
| | | | | | | (ER43M31/M61/M90/M91) | | | | | |
| C3518 | 1-163-224-11 | CERAMIC CHIP | 7PF | 0.25PF | 50V | ***** | | | | | |
| C3519 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | | | | | | |
| C3520 | 1-137-374-11 | MYLAR | 0.047UF | 5.00% | 50V | 4-363-414-00 SPACER, MICA | | | | | |
| C3523 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5.00% | 50V | 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | | |
| C3525 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | * 4-393-506-01 RETAINER, TR | | | | | |
| | | | | | | 7-682-952-09 SCREW +PSW 3X16 | | | | | |
| C3526 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | | | | | | |
| C3528 | 1-107-714-11 | ELECT | 10UF | 20.00% | 16V | | | | | | |
| | | | | | | <CAPACITOR> | | | | | |
| | | <CONNECTOR> | | | | C5001 | 1-126-947-11 | ELECT | 47UF | 20.00% | 16V |
| | | | | | | C5002 | 1-126-963-11 | ELECT | 4.7UF | 20.00% | 50V |
| CN3501 | * 1-691-632-21 | CONNECTOR, BOARD TO BOARD | 15P | | | C5011 | 1-126-934-11 | ELECT | 220UF | 20.00% | 16V |
| | | | | | | C5020 | 1-126-961-11 | ELECT | 2.2UF | 20.00% | 50V |
| | | | | | | C5102 | 1-102-973-00 | CERAMIC | 100PF | 5.00% | 50V |
| | | <IC> | | | | C5103 | 1-126-960-11 | ELECT | 1UF | 20.00% | 50V |
| IC3502 | 8-759-251-31 | IC CA0007AM | | | | C5104 | 1-137-415-11 | MYLAR | 0.0068UF | 10.00% | 100V |
| IC3503 | 8-759-251-31 | IC CA0007AM | | | | C5105 | 1-102-973-00 | CERAMIC | 100PF | 5.00% | 50V |
| IC3504 | 8-759-251-31 | IC CA0007AM | | | | C5112 | 1-162-117-00 | CERAMIC | 100PF | 10.00% | 500V |
| IC3505 | 8-759-711-28 | IC NJM2058D | | | | C5113 | 1-136-207-11 | MYLAR | 0.047UF | 10.00% | 250V |
| IC3506 | 8-759-100-96 | IC UPC4558G2 | | | | | | | | | |
| | | <RESISTOR> | | | | C5115 | 1-124-347-51 | ELECT | 100UF | 20.00% | 160V |
| | | | | | | C5117 | 1-162-116-00 | CERAMIC | 680PF | 10.00% | 2KV |
| | | | | | | C5118 | 1-137-391-11 | MYLAR | 0.0047UF | 5.00% | 100V |
| | | | | | | C5119 | 1-162-116-00 | CERAMIC | 680PF | 10.00% | 2KV |
| R3501 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | C5120 | 1-162-116-00 | CERAMIC | 680PF | 10.00% | 2KV |
| R3502 | 1-216-093-91 | RES-CHIP | 68K | 5% | 1/10W | | | | | | |
| R3503 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | C5123 | 1-129-718-00 | FILM | 0.022UF | 5.00% | 630V |
| R3504 | 1-216-689-11 | RES-CHIP | 39K | 5% | 1/10W | C5127 | 1-117-643-11 | FILM | 9100PF | 3.00% | 1.2KV |
| R3506 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | C5130 | 1-115-521-11 | FILM | 0.82UF | 5.00% | 250V |
| | | | | | | C5133 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| R3507 | 1-216-689-11 | RES-CHIP | 39K | 5% | 1/10W | C5135 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| R3508 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | | | | | | |
| R3509 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | C5136 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| R3511 | 1-208-803-11 | METAL CHIP | 7.5K | 0.5% | 1/10W | C5137 | 1-136-559-11 | MYLAR | 0.0047UF | 10.00% | 400V |
| R3512 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | C5138 | 1-126-965-91 | ELECT | 22UF | 20.00% | 50V |
| | | | | | | C5141 | 1-136-189-00 | MYLAR | 0.1UF | 10.00% | 250V |
| R3513 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | C5142 | 1-162-117-00 | CERAMIC | 100PF | 10.00% | 500V |
| R3514 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | | | | | | |
| R3515 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | C5143 | 1-115-521-11 | FILM | 0.82UF | 5.00% | 250V |
| R3518 | 1-216-053-00 | RES-CHIP | 1.5K | 5% | 1/10W | C5145 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| R3519 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | C5146 | 1-107-655-11 | ELECT | 47UF | 20.00% | 250V |
| | | | | | | C5147 | 1-102-228-00 | CERAMIC | 470PF | 10.00% | 500V |
| R3520 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | C5148 | 1-126-941-11 | ELECT | 470UF | 20.00% | 25V |
| R3521 | 1-216-103-00 | RES-CHIP | 180K | 5% | 1/10W | | | | | | |
| R3523 | 1-216-099-00 | RES-CHIP | 120K | 5% | 1/10W | C5149 | 1-126-941-11 | ELECT | 470UF | 20.00% | 25V |
| R3524 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W | C5150 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| R3526 | 1-216-039-00 | RES-CHIP | 390 | 5% | 1/10W | C5151 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| | | | | | | C5152 | 1-126-972-11 | ELECT | 1000UF | 20.00% | 50V |
| R3529 | 1-216-107-00 | RES-CHIP | 270K | 5% | 1/10W | C5153 | 1-126-972-11 | ELECT | 1000UF | 20.00% | 50V |
| R3530 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | | | | | | |
| R3531 | 1-216-041-00 | RES-CHIP | 470 | 5% | 1/10W | C5158 | 1-124-347-51 | ELECT | 100UF | 20.00% | 160V |
| R3532 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W | C5159 | 1-126-935-11 | ELECT | 470UF | 20.00% | 16V |
| R3533 | 1-216-075-00 | RES-CHIP | 12K | 5% | 1/10W | C5160 | 1-126-935-11 | ELECT | 470UF | 20.00% | 16V |
| | | | | | | C5163 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| R3535 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W | C5164 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V |
| R3537 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | | | | | | |

D

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|--------------|----------|---------|----------|-------------|---|
| C5165 | 1-126-967-11 | ELECT | 47UF | 20.00% | 50V | C5332 | 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V |
| C5166 | 1-107-909-11 | ELECT | 47UF | 20.00% | 50V | C5333 | 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V |
| C5167 | 1-126-967-11 | ELECT | 47UF | 20.00% | 50V | C5334 | 1-126-960-11 ELECT 1UF 20.00% 50V |
| C5168 | 1-107-909-11 | ELECT | 47UF | 20.00% | 50V | C5401 | 1-126-967-11 ELECT 47UF 20.00% 50V |
| C5170 | 1-163-037-11 | CERAMIC CHIP | 0.022UF | 10.00% | 50V | C5402 | 1-126-947-11 ELECT 47UF 20.00% 25V |
| C5171 | 1-106-387-00 | MYLAR | 0.068UF | 10.00% | 200V | C5403 | 1-102-125-00 CERAMIC 0.0047UF 10.00% 50V |
| C5172 | 1-163-037-11 | CERAMIC CHIP | 0.022UF | 10.00% | 50V | C5404 | 1-102-125-00 CERAMIC 0.0047UF 10.00% 50V |
| C5173 | 1-163-037-11 | CERAMIC CHIP | 0.022UF | 10.00% | 50V | C5405 | 1-102-125-00 CERAMIC 0.0047UF 10.00% 50V |
| C5174 | 1-163-037-11 | CERAMIC CHIP | 0.022UF | 10.00% | 50V | C5406 | 1-126-947-11 ELECT 47UF 20.00% 25V |
| C5175 | 1-126-967-11 | ELECT | 47UF | 20.00% | 50V | C5407 | 1-130-495-00 MYLAR 0.1UF 5.00% 50V |
| C5176 | 1-126-967-11 | ELECT | 47UF | 20.00% | 50V | C5507 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5204 | 1-126-933-11 | ELECT | 100UF | 20.00% | 16V | C5508 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5205 | 1-130-495-00 | MYLAR | 0.1UF | 5.00% | 50V | C5509 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5206 | 1-126-960-11 | ELECT | 1UF | 20.00% | 50V | C5510 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5207 | 1-126-965-91 | ELECT | 22UF | 20.00% | 50V | C5511 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5208 | 1-163-037-11 | CERAMIC CHIP | 0.022UF | 10.00% | 50V | C5512 | 1-102-973-00 CERAMIC 100PF 5.00% 50V |
| C5209 | 1-163-275-11 | CERAMIC CHIP | 0.001UF | 5.00% | 50V | C5517 | 1-126-965-91 ELECT 22UF 20.00% 50V |
| C5211 | 1-130-495-00 | MYLAR | 0.1UF | 5.00% | 50V | C5518 | 1-126-965-91 ELECT 22UF 20.00% 50V |
| C5214 | 1-126-935-11 | ELECT | 470UF | 20.00% | 16V | C5519 | 1-126-969-11 ELECT 220UF 20.00% 50V |
| C5215 | 1-126-964-11 | ELECT | 10UF | 20.00% | 50V | C5520 | 1-126-969-11 ELECT 220UF 20.00% 50V |
| C5216 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5521 | 1-130-495-00 MYLAR 0.1UF 5.00% 50V |
| C5217 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5522 | 1-130-495-00 MYLAR 0.1UF 5.00% 50V |
| C5218 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5523 | 1-126-971-11 ELECT 470UF 20.00% 50V |
| C5219 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5524 | 1-126-971-11 ELECT 470UF 20.00% 50V |
| C5220 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5527 | 1-126-969-11 ELECT 220UF 20.00% 50V |
| C5221 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5528 | 1-126-969-11 ELECT 220UF 20.00% 50V |
| C5222 | 1-164-096-11 | CERAMIC | 0.01UF | | 50V | C5529 | 1-137-150-11 MYLAR 0.01UF 5.00% 50V |
| C5223 | 1-126-960-11 | ELECT | 1UF | 20.00% | 50V | C5530 | 1-137-150-11 MYLAR 0.01UF 5.00% 50V |
| C5224 | 1-126-967-11 | ELECT | 47UF | 20.00% | 50V | C5711 | 1-130-495-00 MYLAR 0.1UF 5.00% 50V |
| C5225 | 1-163-021-91 | CERAMIC CHIP | 0.01UF | 10.00% | 50V | C5712 | 1-136-177-00 FILM 1UF 5.00% 50V |
| C5226 | 1-164-161-11 | CERAMIC CHIP | 0.0022UF | 10.00% | 50V | C5713 | 1-104-665-11 ELECT 100UF 20.00% 25V |
| C5301 | 1-126-947-11 | ELECT | 47UF | 20.00% | 25V | C5714 | 1-130-471-00 MYLAR 0.001UF 5.00% 50V |
| C5302 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V | C5715 | 1-137-150-11 MYLAR 0.01UF 5.00% 50V |
| C5303 | 1-126-933-11 | ELECT | 100UF | 20.00% | 16V | C5716 | 1-104-665-11 ELECT 100UF 20.00% 25V |
| C5304 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V | C5717 | 1-126-968-11 ELECT 100UF 20.00% 50V |
| C5305 | 1-130-777-00 | MYLAR | 0.1UF | 5.00% | 100V | C5718 | 1-162-114-00 CERAMIC 0.0047UF 2KV |
| C5307 | 1-164-004-11 | CERAMIC CHIP | 0.1UF | 10.00% | 25V | C5719 | 1-126-968-11 ELECT 100UF 20.00% 50V |
| C5308 | 1-126-960-11 | ELECT | 1UF | 20.00% | 50V | C5720 | 1-137 |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|-------------------------------|--------|---------|--------------------------|------------------------------|--------|
| CN5012 | * 1-564-507-11 | PLUG, CONNECTOR 4P | | | | <FERRITBEAD> | |
| CN5013 | * 1-764-333-11 | PLUG, CONNECTOR 10P | | | | | |
| CN5014 | * 1-691-135-11 | PIN, CONNECTOR (PC BOARD) 4P | | FB5102 | 1-412-911-11 | FERRITE | 0UH |
| CN5015 | 1-695-298-11 | CONNECTOR, BOARD TO BOARD 40P | | FB5103 | 1-412-911-11 | FERRITE | 0UH |
| CN5016 | 1-900-903-64 | CONNECTOR ASSY 20P | | | | | |
| CN5017 | 1-900-903-64 | CONNECTOR ASSY 20P | | | | <IC> | |
| CN5018 | * 1-564-511-11 | PLUG, CONNECTOR 8P | | IC5103 | 8-759-701-79 | IC NJM7812FA | |
| CN5019 | * 1-564-507-11 | PLUG, CONNECTOR 4P | | IC5104 | 8-759-929-65 | IC LM7912CT | |
| CN5020 | * 1-564-506-11 | PLUG, CONNECTOR 3P | | IC5105 | 8-759-701-56 | IC NJM78M05FA | |
| CN5402 | * 1-691-616-21 | CONNECTOR, BOARD TO BOARD 15P | | IC5106 | 8-759-701-84 | IC NJM7905FA | |
| | | | | IC5107 | 8-759-701-59 | IC NJM78M09FA | |
| | | <DIODE> | | IC5201 | 8-759-085-67 | IC LM339NS | |
| D3501 | 6-500-023-01 | DIODE MM3Z5V6ST1 | | IC5301 | 8-759-251-31 | IC CA0007AM | |
| D3502 | 8-719-914-44 | DIODE DAP202K | | IC5302 | 8-759-696-71 | IC STV9379A | |
| D3503 | 6-500-023-01 | DIODE MM3Z5V6ST1 | | IC5401 | 8-759-711-28 | IC NJM2058D | |
| D5001 | 8-719-991-33 | DIODE 1SS133T-77 | | IC5501 | 8-749-014-67 | IC STK392-020 | |
| D5002 | 8-719-991-33 | DIODE 1SS133T-77 | | | | | |
| D5006 | 8-719-991-33 | DIODE 1SS133T-77 | | IC5502 | 8-749-014-67 | IC STK392-020 | |
| D5008 | 8-719-991-33 | DIODE 1SS133T-77 | | IC5703 | 8-759-711-28 | IC NJM2058D | |
| D5101 | 8-719-110-83 | DIODE RD36ES-B2 | | | | <CHIP CONDUCTOR> | |
| D5107 | 8-719-979-99 | DIODE ERD08M-15 | | JR5301 | 1-216-295-91 | SHORT | 0 |
| D5108 | 8-719-052-09 | DIODE FMG-36S-LF024-104 | | JR5303 | 1-216-295-91 | SHORT | 0 |
| D5114 | 8-719-971-20 | DIODE ERC38-06 | | | | | |
| D5115 | 8-719-302-43 | DIODE EL1Z | | | | <COIL> | |
| D5116 | 8-719-979-85 | DIODE EGP20G | | L5101 | 1-406-665-11 | INDUCTOR | 100UH |
| D5117 | 8-719-302-43 | DIODE EL1Z | | L5105 | 1-459-111-00 | INDUCTOR | 10MH |
| D5118 | 8-719-979-85 | DIODE EGP20G | | L5107 | 1-412-533-21 | INDUCTOR | 47UH |
| D5121 | 8-719-979-85 | DIODE EGP20G | | L5108 | 1-412-533-21 | INDUCTOR | 47UH |
| D5122 | 8-719-979-85 | DIODE EGP20G | | L5109 | 1-412-519-11 | INDUCTOR | 3.3UH |
| D5201 | 8-719-991-33 | DIODE 1SS133T-77 | | L5111 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| D5202 | 8-719-109-85 | DIODE RD5.1ESB2 | | L5201 | 1-414-187-11 | INDUCTOR | 47UH |
| D5203 | 8-719-110-39 | DIODE RD15ES-B1 | | L5301 | 1-412-524-11 | INDUCTOR | 8.2UH |
| D5204 | 8-719-110-03 | DIODE RD7.5ESB2 | | L5302 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| D5205 | 8-719-991-33 | DIODE 1SS133T-77 | | L5303 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| D5207 | 8-719-991-33 | DIODE 1SS133T-77 | | | | | |
| D5208 | 8-719-991-33 | DIODE 1SS133T-77 | | L5501 | 1-412-533-21 | INDUCTOR | 47UH |
| D5301 | 8-719-110-39 | DIODE RD15ES-B1 | | L5502 | 1-412-533-21 | INDUCTOR | 47UH |
| D5302 | 8-719-991-33 | DIODE 1SS133T-77 | | L5503 | 1-412-533-21 | INDUCTOR | 47UH |
| D5303 | 8-719-908-03 | DIODE GP08D | | L5504 | 1-412-533-21 | INDUCTOR | 47UH |
| D5304 | 8-719-908-03 | DIODE GP08D | | | | | |
| D5305 | 8-719-991-33 | DIODE 1SS133T-77 | | | | <NEON LAMP> | |
| D5306 | 8-719-110-39 | DIODE RD15ES-B1 | | NL5101 | 1-517-778-21 | LAMP, NEON | |
| D5307 | 8-719-110-39 | DIODE RD15ES-B1 | | NL5102 | 1-517-778-21 | LAMP, NEON | |
| D5308 | 8-719-110-63 | DIODE RD24ES-B3 | | NL5103 | 1-517-778-21 | LAMP, NEON | |
| D5309 | 8-719-110-63 | DIODE RD24ES-B3 | | NL5402 | 1-517-778-21 | LAMP, NEON | |
| D5401 | 8-719-110-17 | DIODE RD10ESB2 | | | | | |
| D5402 | 8-719-109-54 | DIODE RD2.2ES-B2 | | | | <IC LINK> | |
| D5701 | 8-719-991-33 | DIODE 1SS133T-77 | | PS5101 | \triangle 1-533-590-51 | LINK, IC (1A/90V AC, 60V DC) | |
| D5704 | 8-719-991-33 | DIODE 1SS133T-77 | | PS5501 | \triangle 1-533-597-31 | LINK, IC (5A/90V AC, 60V DC) | |
| D5719 | 8-719-110-39 | DIODE RD15ES-B1 | | PS5502 | \triangle 1-533-597-31 | LINK, IC (5A/90V AC, 60V DC) | |
| D5721 | 8-719-110-39 | DIODE RD15ES-B1 | | PS5503 | \triangle 1-533-597-31 | LINK, IC (5A/90V AC, 60V DC) | |
| D5724 | 8-719-018-82 | DIODE RGP02-20EL-6394 | | PS5504 | \triangle 1-533-597-31 | LINK, IC (5A/90V AC, 60V DC) | |
| D5726 | 8-719-991-33 | DIODE 1SS133T-77 | | | | | |
| D5727 | 8-719-991-33 | DIODE 1SS133T-77 | | | | | |
| D5732 | 8-719-991-33 | DIODE 1SS133T-77 | | | | | |

The components identified by shading
and mark △ are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|--------------|---------------------------------|----------|---------|--------------|----------------------|--------------------|
| PS5539△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5153 | 1-249-379-11 | CARBON 0.68 | 5% 1/4W |
| PS5540△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5154 | 1-260-127-11 | CARBON 220K | 5% 1/2W |
| PS5543△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5155 | 1-214-909-00 | METAL 68K | 1% 1/2W |
| PS5544△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5156 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| PS5549△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5157 | 1-215-908-00 | METAL OXIDE 33 | 5% 3W (KP-ER43) |
| PS5550△ | 1-533-595-21 | LINK, IC (3.15A/90V AC, 60V DC) | | R5157 | 1-216-474-11 | METAL OXIDE 82 | 5% 3W (KP-ER53) |
| <TRANSISTOR> | | | | R5158 | 1-216-349-00 | METAL OXIDE 1 | 5% 1W |
| Q5006 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R5159 | 1-215-908-00 | METAL OXIDE 33 | 5% 3W (KP-ER43) |
| Q5009 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R5159 | 1-216-474-11 | METAL OXIDE 82 | 5% 3W (KP-ER53) |
| Q5102 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | | R5160 | 1-249-377-11 | CARBON 0.47 | 5% 1/4W |
| Q5104 | 8-729-051-81 | TRANSISTOR 2SC5047-YB | | R5161 | 1-249-377-11 | CARBON 0.47 | 5% 1/4W |
| Q5105 | 8-729-038-83 | TRANSISTOR 2SK2251-01-F19 | | R5162 | 1-216-393-00 | METAL OXIDE 2.2 | 5% 3W |
| Q5106 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R5163 | 1-216-392-11 | METAL OXIDE 1.8 | 5% 3W |
| Q5201 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R5164 | 1-249-393-11 | CARBON 10 | 5% 1/4W |
| Q5302 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R5166 | 1-215-905-11 | METAL OXIDE 10 | 5% 3W |
| Q5303 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R5169 | 1-249-424-11 | CARBON 3.9K | 5% 1/4W |
| Q5401 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5171 | 1-249-429-11 | CARBON 10K | 5% 1/4W |
| Q5402 | 8-729-424-02 | TRANSISTOR 2SB709A-QRS-TX | | R5172 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| Q5403 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R5173 | 1-215-905-11 | METAL OXIDE 10 | 5% 3W |
| Q5501 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | R5174 | 1-215-905-11 | METAL OXIDE 10 | 5% 3W |
| Q5502 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | R5175 | 1-215-905-11 | METAL OXIDE 10 | 5% 3W |
| Q5503 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R5201 | 1-216-059-00 | RES-CHIP 2.7K | 5% 1/10W |
| Q5504 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | R5202 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| Q5505 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R5203 | 1-215-879-11 | METAL OXIDE 47K | 5% 1W |
| Q5506 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | R5204 | 1-216-059-00 | RES-CHIP 2.7K | 5% 1/10W |
| Q5704 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | R5205 | 1-216-059-00 | RES-CHIP 2.7K | 5% 1/10W |
| Q5705 | 8-729-053-73 | TRANSISTOR 2SC5022 | | R5206 | 1-208-837-11 | METAL CHIP 200K | 0.5% 1/10W |
| Q5706 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R5209 | 1-208-760-11 | METAL CHIP 120 | 0.5% 1/10W |
| Q5707 | 8-729-046-80 | TRANSISTOR 2SC4634LS-CB11 | | R5210 | 1-216-113-00 | RES-CHIP 470K | 5% 1/10W |
| Q5710 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R5211 | 1-216-081-00 | RES-CHIP 22K | 5% 1/10W |
| Q5711 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R5212 | 1-216-071-00 | RES-CHIP 8.2K | 5% 1/10W |
| <RESISTOR> | | | | R5213 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| R5004 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W | R5214 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| R5013 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W | R5215 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| R5023 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W | R5216 | 1-247-895-91 | CARBON 470K | 5% 1/4W |
| R5048 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W | R5217 | 1-216-071-00 | RES-CHIP 8.2K | 5% 1/10W |
| R5101 | 1-215-926-00 | METAL OXIDE 33K | 5% 3W | R5218 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| R5112 | 1-247-843-11 | CARBON 3.3K | 5% 1/4W | R5219 | 1-216-075-00 | RES-CHIP 12K | 5% 1/10W |
| R5115 | 1-216-435-11 | METAL OXIDE 2.7K | 5% 1W | R5220 | 1-216-105-91 | RES-CHIP 220K | 5% 1/10W |
| R5119 | 1-215-922-11 | METAL OXIDE 6.8K | 5% 3W | R5221 | 1-216-061-91 | RES-CHIP 3.3K | 5% 1/10W |
| R5120 | 1-216-486-00 | METAL OXIDE 8.2K | 5% 3W | R5222 | 1-216-105-91 | RES-CHIP 220K | 5% 1/10W |
| R5122 | 1-215-905-11 | METAL OXIDE 10 | 5% 3W | R5223 | 1-216-081-00 | RES-CHIP 22K | 5% 1/10W |
| R5136 | 1-215-443-00 | METAL 8.2K | 1% 1/4W | R5224 | 1-249-405-11 | CARBON 100 | 5% 1/4W |
| R5138 | 1-215-457-00 | METAL 33K | 1% 1/4W | R5225 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W |
| R5139 | 1-216-391-11 | METAL OXIDE 1.5 | 5% 3W | R5226 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| R5140 | 1-215-449-00 | METAL 15K | 1% 1/4W | R5227 | 1-260-135-11 | CARBON 1M | 5% 1/2W |
| R5141 | 1-215-911-11 | METAL OXIDE 100 | 5% 3W | R5228 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| R5146 | 1-215-910-00 | METAL OXIDE 68 | 5% 3W | R5229 | 1-216-045-00 | RES-CHIP 680 | 5% 1/10W |
| R5147 | 1-215-910-00 | METAL OXIDE 68 | 5% 3W | R5230 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W |
| R5148 | 1-249-377-11 | CARBON 0.47 | 5% 1/4W | R5231 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W |
| R5149 | 1-247-807-31 | CARBON 100 | 5% 1/4W | R5232 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| R5152 | 1-216-377-11 | METAL OXIDE 4.7 | 5% 2W | R5233 | 1-247-807-31 | CARBON 100 | 5% 1/4W |
| | | | | R5234 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|----------------------|-----------------|---------|--------------|----------------------|--------|
| R5235 | 1-208-810-11 | METAL CHIP | 15K 0.5% 1/10W | R5505 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R5236 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R5506 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R5302 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R5507 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5303 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W | R5508 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5304 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R5509 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5305 | 1-208-801-11 | METAL CHIP | 6.2K 0.5% 1/10W | R5510 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5306 | 1-208-806-11 | METAL CHIP | 10K 0.5% 1/10W | R5511 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5307 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R5512 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5308 | 1-216-353-00 | METAL OXIDE | 2.2 5% 1W | R5513 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5309 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | R5514 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| R5310 | 1-216-353-00 | METAL OXIDE | 2.2 5% 1W | R5515 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R5311 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R5516 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| R5312 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R5517 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5313 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W | R5518 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5314 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R5519 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5315 | 1-215-913-11 | METAL OXIDE | 220 5% 3W | R5520 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5316 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R5521 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5317 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R5522 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5318 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | R5523 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R5319 | 1-216-085-91 | RES-CHIP | 33K 5% 1/10W | R5524 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5320 | 1-249-383-11 | CARBON | 1.5 5% 1/4W | R5525 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5321 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R5526 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R5323 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W | R5527 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5324 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R5528 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5325 | 1-208-801-11 | METAL CHIP | 6.2K 0.5% 1/10W | R5529 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5326 | 1-208-806-11 | METAL CHIP | 10K 0.5% 1/10W | R5530 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5328 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R5531 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5329 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R5532 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R5330 | 1-216-295-91 | SHORT | 0 | R5533 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5331 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R5534 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5335 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W | R5535 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5337 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W | R5536 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5338 | 1-216-295-91 | SHORT | 0 | R5537 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5339 | 1-247-807-31 | CARBON | 100 5% 1/4W | R5538 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5340 | 1-249-377-11 | CARBON | 0.47 5% 1/4W | R5541 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5341 | 1-249-377-11 | CARBON | 0.47 5% 1/4W | R5542 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5344 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W | R5545 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5345 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W | R5546 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5401 | 1-216-295-91 | SHORT | 0 | R5547 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5405 | 1-260-087-11 | CARBON | 100 5% 1/2W | R5548 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5406 | 1-216-295-91 | SHORT | 0 | R5551 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5408 | 1-216-295-91 | SHORT | 0 | R5552 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5409 | 1-216-295-91 | SHORT | 0 | R5553 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5410 | 1-260-087-11 | CARBON | 100 5% 1/2W | R5554 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5411 | 1-216-295-91 | SHORT | 0 | R5555 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5412 | 1-208-812-11 | METAL CHIP | 18K 0.5% 1/10W | R5556 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5415 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W | R5557 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5416 | 1-216-295-91 | SHORT | 0 | R5558 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5419 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R5559 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5420 | 1-216-077-91 | RES-CHIP | 15K 5% 1/10W | R5560 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5421 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R5561 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5422 | 1-216-105-91 | RES-CHIP | 220K 5% 1/10W | R5562 | 1-214-808-11 | METAL 4.7 1% 1/2W | |
| R5501 | 1-247-807-31 | CARBON | 100 5% 1/4W | R5563 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5502 | 1-247-807-31 | CARBON | 100 5% 1/4W | R5564 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5503 | 1-247-807-31 | CARBON | 100 5% 1/4W | R5565 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R5504 | 1-247-807-31 | CARBON | 100 5% 1/4W | R5566 | 1-249-429-11 | CARBON 10K 5% 1/4W | |

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961

• The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------|--------------------------|----------------------------------|---------------|---|--------------------------|----------------------|--------------|
| R5567 | 1-249-429-11 | CARBON | 10K 5% 1/4W | ***** | | | |
| R5568 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R5569 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R5570 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R5723 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R5724 | 1-247-807-31 | CARBON | 100 5% 1/4W | | | | |
| R5725 | 1-216-093-91 | RES-CHIP | 68K 5% 1/10W | | | | |
| R5726 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | | | | |
| R5727 | 1-216-085-91 | RES-CHIP | 33K 5% 1/10W | | | | |
| R5728 | 1-216-051-00 | RES-CHIP | 1.2K 5% 1/10W | | | | |
| R5729 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R5730 | 1-249-431-11 | CARBON | 15K 5% 1/4W | | | | |
| R5731 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R5732 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| R5734 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W | | | | |
| R5735 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | | | | |
| R5737 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | | | | |
| R5738 | 1-249-405-11 | CARBON | 100 5% 1/4W | | | | |
| R5739 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R5740 | 1-215-917-11 | METAL OXIDE | 1K 5% 3W | | | | |
| R5744 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | | | | |
| R5745 | 1-216-099-00 | RES-CHIP | 120K 5% 1/10W | | | | |
| R5746 | 1-215-925-11 | METAL OXIDE | 22K 5% 3W | | | | |
| R5747 | 1-215-925-11 | METAL OXIDE | 22K 5% 3W | | | | |
| R5748 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | | | | |
| R5749 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R5750 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R5751 | 1-260-328-11 | CARBON | 1K 5% 1/2W | | | | |
| R5753 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R5754 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R5755 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R5756 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R5757 | 1-219-752-11 | CARBON | 100K 5% 1/2W | | | | |
| R5758 | 1-215-925-11 | METAL OXIDE | 22K 5% 3W | | | | |
| R5759 | 1-215-925-11 | METAL OXIDE | 22K 5% 3W | | | | |
| R5762 | 1-219-743-11 | CARBON | 100 5% 1/2W | | | | |
| R5763 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R5768 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R5769 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R5770 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R5771 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | | | | |
| R5772 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| \blacksquare R9901 | \triangle | METAL | | | | | |
| <SPARK GAP> | | | | | | | |
| SG5702 | 1-519-466-11 | GAP, SPARK | | | | | |
| <TRANSFORMER> | | | | | | | |
| T5101 | 1-437-209-11 | TRANSFORMER, HORIZONTAL DRIVE | | | | | |
| T5102 | 1-419-553-11 | COIL, HORIZONTAL LINEARITY (HLC) | | | | | |
| T5103 | \triangle 1-453-335-11 | FBT ASSY (NX-4010/M3P4) | | | | | |
| T5104 | 1-435-439-11 | TRANSFORMER, FERRITE (PMT) | | | | | |
| | | | | ***** | | | |
| | | | | * A-1316-528-A G BOARD, COMPLETE | | | |
| | | | | (ER43M31/M90, ER53M31/M90) | | | |
| | | | | ***** | | | |
| | | | | 1-533-725-11 HOLDER, FUSE | | | |
| | | | | * 4-374-846-01 COVER, CAPACITOR, CAP TYPE | | | |
| | | | | 4-382-854-11 SCREW (M3X10), P, SW (+) | | | |
| | | | | <CAPACITOR> | | | |
| | | | | C6000 | \triangle 1-104-708-11 | MYLAR 0.47UF | 20.00% 250V |
| | | | | C6003 | \triangle 1-104-706-11 | MYLAR 0.22UF | 20.00% 250V |
| | | | | C6009 | \triangle 1-104-706-11 | MYLAR 0.22UF | 20.00% 250V |
| | | | | C6010 | \triangle 1-119-894-51 | CERAMIC 2200PF | 20.00% 250V |
| | | | | C6011 | \triangle 1-119-894-51 | CERAMIC 2200PF | 20.00% 250V |
| | | | | C6013 | \triangle 1-161-964-91 | CERAMIC 0.0047UF | 250V |
| | | | | C6015 | \triangle 1-161-964-91 | CERAMIC 0.0047UF | 250V |
| | | | | C6017 | \triangle 1-161-964-51 | CERAMIC 0.0047UF | 250V |
| | | | | C6018 | \triangle 1-161-964-51 | CERAMIC 0.0047UF | 250V |
| | | | | C6020 | 1-126-968-11 | ELECT 100UF | 20.00% 50V |
| | | | | C6022 | 1-131-940-11 | ELECT 1200UF | 20% 250V |
| | | | | C6023 | 1-131-940-11 | ELECT 1200UF | 20% 250V |
| | | | | C6024 | 1-117-227-11 | MYLAR 1UF | 10.00% 450V |
| | | | | C6025 | 1-115-389-11 | FILM 0.018UF | 3.00% 800V |
| | | | | C6026 | 1-125-969-91 | CERAMIC 680PF | 10.00% 1KV |
| | | | | C6027 | 1-115-824-11 | ELECT 18UF | 20.00% 50V |
| | | | | C6028 | 1-104-588-11 | FILM 0.0082UF | 2.50% 1.25KV |
| | | | | C6029 | 1-102-106-00 | CERAMIC 100PF | 10.00% 50V |
| | | | | C6030 | 1-136-189-00 | MYLAR 0.1UF | 10.00% 250V |
| | | | | C6031 | 1-125-969-91 | CERAMIC 680PF | 10.00% 1KV |
| | | | | C6032 | 1-115-405-11 | FILM 0.039UF | 3.00% 1KV |
| | | | | C6033 | 1-126-963-11 | ELECT 4.7UF | 20.00% 50V |
| | | | | C6034 | 1-130-029-00 | FILM 8200PF | 2.00% 50V |
| | | | | C6035 | 1-104-665-11 | ELECT 100UF | 20.00% 25V |
| | | | | C6036 | 1-107-906-11 | ELECT 10UF | 20.00% 50V |
| | | | | C6037 | 1-137-150-11 | MYLAR 0.01UF | 5.00% 50V |
| | | | | C6038 | 1-104-588-11 | FILM 0.0082UF | 2.50% 1.25KV |
| | | | | C6039 | 1-115-389-11 | FILM 0.018UF | 3.00% 800V |
| | | | | C6040 | 1-117-227-11 | MYLAR 1UF | 10.00% 450V |
| | | | | C6041 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| | | | | C6042 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| | | | | C6044 | 1-117-703-11 | CERAMIC 0.0047UF | 99% 250V |
| | | | | C6100 | ! 1-161-964-51 | CERAMIC 0.0047UF | 250V |
| | | | | C6101 | ! 1-107-679-91 | ELECT 10UF | 20.00% 450V |
| | | | | C6102 | ! 1-161-964-51 | CERAMIC 0.0047UF | 250V |
| | | | | C6103 | 1-163-005-91 | CERAMIC CHIP 470PF | 10.00% 50V |
| | | | | C6104 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| | | | | C6105 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| | | | | C6106 | 1-163-275-11 | CERAMIC CHIP 0.001UF | 5.00% 50V |
| | | | | C6107 | 1-137-605-11 | MYLAR 0.01UF | 10.00% 250V |
| | | | | C6109 | 1-126-965-91 | ELECT 22UF | 20.00% 50V |
| | | | | C6110 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| | | | | C6111 | ! 1-161-964-51 | CERAMIC 0.0047UF | 250V |
| | | | | C6300 | 1-101-810-00 | CERAMIC 100PF | 5.00% 500V |
| | | | | C6301 | 1-101-810-00 | CERAMIC 100PF | 5.00% 500V |

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|-------------|-----------------------|-------------------------------|---------------------|--------------|-----------------------|----------------------|--------|
| C6302 | 1-102-114-00 | CERAMIC | 470PF 10.00% 50V | D6021 | 8-719-110-36 | DIODE RD13ES-B2 | |
| C6303 | 1-102-114-00 | CERAMIC | 470PF 10.00% 50V | D6021 | 8-719-921-88 | DIODE MTZJ-13B | |
| C6306 | 1-101-810-00 | CERAMIC | 100PF 5.00% 500V | D6022 | 8-719-979-64 | DIODE UF4005PKG23 | |
| C6307 | 1-126-943-11 | ELECT | 2200UF 20.00% 25V | D6023 | 8-719-979-64 | DIODE UF4005PKG23 | |
| C6308 | 1-126-937-11 | ELECT | 4700UF 20.00% 16V | D6100 | Δ 8-719-068-00 | DIODE ERC04-06SE | |
| C6309 | 1-101-810-00 | CERAMIC | 100PF 5.00% 500V | D6101 | 8-719-110-49 | DIODE RD18ES-B2 | |
| C6310 | 1-101-810-00 | CERAMIC | 100PF 5.00% 500V | D6102 | 8-719-083-83 | DIODE UDZS-TE17-15B | |
| C6311 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6103 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6312 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6104 | Δ 8-719-068-00 | DIODE ERC04-06SE | |
| C6313 | 1-126-960-11 | ELECT | 1UF 20.00% 50V | D6105 | 8-719-948-45 | DIODE ERA22-08 | |
| C6314 | 1-128-567-51 | ELECT | 1000UF 20.00% 100V | D6106 | Δ 8-719-068-00 | DIODE ERC04-06SE | |
| C6315 | 1-128-567-51 | ELECT | 1000UF 20.00% 100V | D6108 | 8-719-510-48 | DIODE D1N20R | |
| C6317 | 1-109-954-11 | ELECT | 0.47UF 20.00% 160V | D6300 | 8-719-057-96 | DIODE D10SC6M-4012 | |
| C6321 | 1-128-549-11 | ELECT | 3300UF 20.00% 35V | D6301 | 8-719-510-12 | DIODE D10SC4M | |
| C6322 | 1-128-549-11 | ELECT | 3300UF 20.00% 35V | D6302 | 8-719-312-47 | DIODE RBA-406B | |
| C6323 | 1-128-549-11 | ELECT | 3300UF 20.00% 35V | D6303 | 8-719-063-73 | DIODE D1NL20U-TR | |
| C6324 | 1-128-549-11 | ELECT | 3300UF 20.00% 35V | D6304 | 8-719-050-18 | DIODE D4SBL20U | |
| C6325 | 1-126-935-11 | ELECT | 470UF 20.00% 6.3V | D6305 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6327 | 1-126-968-11 | ELECT | 100UF 20.00% 50V | D6306 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6328 | 1-126-968-11 | ELECT | 100UF 20.00% 50V | D6307 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6329 | 1-126-943-11 | ELECT | 2200UF 20.00% 25V | D6308 | 8-719-988-31 | DIODE D10SC6MR | |
| C6330 | 1-126-943-11 | ELECT | 2200UF 20.00% 25V | D6309 | 8-719-057-96 | DIODE D10SC6M-4012 | |
| C6331 | 1-107-641-11 | ELECT | 220UF 20.00% 160V | D6310 | 8-719-052-91 | DIODE D4SBS4-F | |
| C6332 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6311 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6333 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6312 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6334 | 1-126-940-11 | ELECT | 330UF 20.00% 25V | D6315 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6335 | 1-126-967-11 | ELECT | 47UF 20.00% 50V | D6316 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6337 | 1-101-810-00 | CERAMIC | 100PF 5.00% 500V | D6317 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6338 | 1-162-117-00 | CERAMIC | 100PF 10.00% 500V | D6318 | 8-719-110-36 | DIODE RD13ES-B2 | |
| C6339 | 1-104-987-11 | MYLAR | 0.001UF 10.00% 200V | D6319 | 8-719-083-60 | DIODE UDZSTE-174.7B | |
| C6341 | 1-137-150-11 | MYLAR | 0.01UF 5.00% 50V | D6320 | 8-719-083-60 | DIODE UDZSTE-174.7B | |
| C6342 | 1-130-495-00 | MYLAR | 0.1UF 5.00% 50V | D6323 | 8-719-032-12 | DIODE D1NS6 | |
| <CONNECTOR> | | | | <FUSE> | | | |
| CN6002 | 1-695-915-11 | TAB (CONTACT) | | F6001 | Δ 1-576-232-11 | FUSE (H.B.C.) | |
| CN6004 | 1-580-843-11 | PIN, CONNECTOR (POWER) | | <FERRITBEAD> | | | |
| CN6006 | *1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | FB6002 | 1-412-911-11 | FERRITE | 0UH |
| CN6007 | *1-691-291-11 | PIN, CONNECTOR (PC BOARD) 5P | | FB6103 | Δ 1-412-911-11 | FERRITE | 0UH |
| CN6011 | *1-508-784-21 | PIN, CONNECTOR (5MM PITCH) 1P | | FB6301 | 1-412-911-11 | FERRITE | 0UH |
| CN6300 | *1-564-508-11 | PLUG, CONNECTOR 5P | | FB6302 | 1-412-911-11 | FERRITE | 0UH |
| CN6301 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | | FB6303 | 1-412-911-11 | FERRITE | 0UH |
| CN6302 | *1-764-333-11 | PLUG, CONNECTOR 10P | | FB6304 | 1-412-911-11 | FERRITE | 0UH |
| CN6303 | *1-764-333-11 | PLUG, CONNECTOR 10P | | FB6305 | 1-412-911-11 | FERRITE | 0UH |
| CN6304 | *1-573-963-11 | PIN, CONNECTOR (PC BOARD) 3P | | FB6306 | 1-412-911-11 | FERRITE | 0UH |
| CN6306 | 1-695-915-11 | TAB (CONTACT) | | FB6307 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| CN6307 | 1-695-915-11 | TAB (CONTACT) | | FB6308 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| CN6308 | 1-695-915-11 | TAB (CONTACT) | | FB6309 | 1-412-911-11 | FERRITE | 0UH |
| <DIODE> | | | | FB6310 | 1-412-911-11 | FERRITE | 0UH |
| D6010 | 8-719-988-61 | DIODE 1SS355TE-17 | | <IC> | | | |
| D6015 | Δ 8-719-510-53 | DIODE D4SB60L | | IC6002 | Δ 8-749-924-35 | IC ON3171-R | |
| D6017 | 8-719-063-73 | DIODE D1NL20U-TR | | | | | |
| D6019 | 8-719-510-02 | DIODE D1NS4 | | | | | |
| D6020 | 8-719-029-04 | DIODE D5L60 | | | | | |

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|-----------------------|-----------------------------|------------|---------|-----------------------|----------------------|------------|
| IC6004 | 8-749-016-66 | IC MCR5152 | | R6054 | 1-208-774-11 | METAL CHIP 470 | 0.5% 1/10W |
| IC6007 | Δ 8-749-924-35 | IC ON3171-R | | R6055 | 1-208-805-11 | METAL CHIP 9.1K | 0.5% 1/10W |
| IC6301 | 8-749-012-13 | IC DM-58 | | R6056 | 1-217-625-00 | METAL 0.05 | 10% 2W |
| IC6302 | 8-759-663-29 | IC MM1476AF(TP) | | R6057 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| IC6303 | 8-759-198-31 | IC UPC1093J-1-T | | R6058 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| IC6304 | 8-759-198-31 | IC UPC1093J-1-T | | R6059 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| <COIL> | | | | R6060 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W |
| L6303 | 1-412-525-31 | INDUCTOR 10UH | | R6061 | Δ 1-220-886-11 | FUSIBLE 0.1 | 10% 1W |
| L6304 | 1-406-659-11 | INDUCTOR 10UH | | R6062 | 1-208-796-11 | METAL CHIP 3.9K | 0.5% 1/10W |
| L6307 | 1-412-525-31 | INDUCTOR 10UH | | R6065 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W |
| L6308 | 1-412-525-31 | INDUCTOR 10UH | | R6067 | 1-249-397-11 | CARBON 22 | 5% 1/4W |
| L6309 | 1-412-525-31 | INDUCTOR 10UH | | R6068 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W |
| L6310 | 1-412-525-31 | INDUCTOR 10UH | | R6069 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W |
| L6311 | 1-412-525-31 | INDUCTOR 10UH | | R6072 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| L6312 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6074 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| L6313 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6075 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| L6314 | 1-412-524-11 | INDUCTOR 8.2UH | | R6076 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| L6315 | 1-412-524-11 | INDUCTOR 8.2UH | | R6079 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| <PROTECTOR> | | | | R6100 | 1-260-298-51 | CARBON 3.3 | 5% 1/2W |
| PS6300 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6101 | 1-216-045-00 | RES-CHIP 680 | 5% 1/10W |
| PS6301 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6102 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| PS6302 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6103 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W |
| PS6303 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6104 | 1-240-205-11 | CARBON 22M | 5% 1/2W |
| PS6304 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6105 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W |
| PS6305 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6106 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W |
| PS6306 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6107 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| PS6307 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6108 | 1-215-493-00 | METAL 1M | 1% 1/4W |
| PS6310 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6109 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W |
| PS6311 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6300 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W |
| <TRANSISTOR> | | | | R6301 | 1-249-413-11 | CARBON 470 | 5% 1/4W |
| Q6004 | 8-729-140-93 | TRANSISTOR 2SB733-34 | | R6302 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6100 | 8-729-046-40 | TRANSISTOR 2SK2663 | | R6304 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6102 | 8-729-023-22 | TRANSISTOR 2SD2114K | | R6305 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6300 | 8-729-023-22 | TRANSISTOR 2SD2114K | | R6306 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W |
| Q6301 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R6307 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6302 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R6308 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| Q6303 | 8-729-820-82 | TRANSISTOR 2SA1208-T | | R6309 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| Q6304 | 8-729-026-39 | TRANSISTOR 2SA933AS-QT | | R6310 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W |
| <RESISTOR> | | | | R6311 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| R6000 | 1-260-131-11 | CARBON 470K | 5% 1/2W | R6312 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| R6001 | 1-260-131-11 | CARBON 470K | 5% 1/2W | R6313 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W |
| R6002 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W | R6314 | 1-216-385-11 | METAL OXIDE 0.47 | 5% 3W |
| R6003 | Δ 1-219-759-11 | CARBON 1M | 5% 1/2W | R6316 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| R6026 | Δ 1-218-265-11 | METAL 8.2M | 5% 1W | R6317 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| R6035 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W | R6318 | 1-215-453-00 | METAL 22K | 1% 1/4W |
| R6043 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | R6319 | 1-215-476-00 | METAL 200K | 1% 1/4W |
| R6049 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W | R6320 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W |
| R6052 | 1-249-417-11 | CARBON 1K | 5% 1/4W | R6321 | 1-208-822-11 | METAL CHIP 47K | 0.5% 1/10W |
| R6053 | 1-216-660-11 | METAL CHIP 2.4K | 0.5% 1/10W | R6322 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W |
| R6054 | 1-208-774-11 | METAL CHIP 470 | 0.5% 1/10W | R6323 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W |
| R6055 | 1-208-805-11 | METAL CHIP 9.1K | 0.5% 1/10W | R6324 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| R6056 | 1-217-625-00 | METAL 0.05 | 10% 2W | R6325 | 1-208-819-11 | METAL CHIP 36K | 0.5% 1/10W |
| R6057 | 1-215-477-00 | METAL 220K | 1% 1/4W | R6326 | 1-208-798-11 | METAL CHIP 4.7K | 0.5% 1/10W |
| R6058 | 1-215-477-00 | METAL 220K | 1% 1/4W | R6327 | 1-208-782-11 | METAL CHIP 1K | 0.5% 1/10W |
| R6059 | 1-215-477-00 | METAL 220K | 1% 1/4W | R6328 | 1-215-906-11 | METAL OXIDE 15 | 5% 3W |
| R6060 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W | | | | |
| R6061 | Δ 1-220-886-11 | FUSIBLE 0.1 | 10% 1W | | | | |
| R6062 | 1-208-796-11 | METAL CHIP 3.9K | 0.5% 1/10W | | | | |
| R6065 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W | | | | |
| R6067 | 1-249-397-11 | CARBON 22 | 5% 1/4W | | | | |
| R6068 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W | | | | |
| R6069 | Δ 1-205-998-11 | CEMENTED 1 | 5% 10W | | | | |
| R6072 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | | |
| R6074 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | | | | | |
| R6075 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | | | | | |
| R6076 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W | | | | |
| R6079 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | | | | |
| R6100 | 1-260-298-51 | CARBON 3.3 | 5% 1/2W | | | | |
| R6101 | 1-216-045-00 | RES-CHIP 680 | 5% 1/10W | | | | |
| R6102 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W | | | | |
| R6103 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | | | | |
| R6104 | 1-240-205-11 | CARBON 22M | 5% 1/2W | | | | |
| R6105 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W | | | | |
| R6106 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W | | | | |
| R6107 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W | | | | |
| R6108 | 1-215-493-00 | METAL 1M | 1% 1/4W | | | | |
| R6109 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W | | | | |
| R6300 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W | | | | |
| R6301 | 1-249-413-11 | CARBON 470 | 5% 1/4W | | | | |
| R6302 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | | | | |
| R6304 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | | | | |
| R6305 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | | | | |
| R6306 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W | | | | |
| R6307 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | | | | |
| R6308 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | | | | |
| R6309 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | | |
| R6310 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W | | | | |
| R6311 | 1-215-477-00 | METAL 220K | 1% 1/4W | | | | |
| R6312 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | | |
| R6313 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W | | | | |
| R6314 | 1-216-385-11 | METAL OXIDE 0.47 | 5% 3W | | | | |
| R6316 | 1-215-477-00 | METAL 220K | 1% 1/4W | | | | |
| R6317 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | | |
| R6318 | 1-215-453-00 | METAL 22K | 1% 1/4W | | | | |
| R6319 | 1-215-476-00 | METAL 200K | 1% 1/4W | | | | |
| R6320 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | | | | |
| R6321 | 1-208-822-11 | METAL CHIP 47K | 0.5% 1/10W | | | | |
| R6322 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W | | | | |
| R6323 | 1-216-041-00 | RES-CHIP 470 | 5% 1/10W | | | | |
| R6324 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | | | | |
| R6325 | 1-208-819-11 | METAL CHIP 36K | 0.5% 1/10W | | | | |
| R6326 | 1-208-798-11 | METAL CHIP 4.7K | 0.5% 1/10W | | | | |
| R6327 | 1-208-782-11 | METAL CHIP 1K | 0.5% 1/10W | | | | |
| R6328 | 1-215-906-11 | METAL OXIDE 15 | 5% 3W | | | | |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | | | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---|-----------------------|------------------------------|----------|--------|-------|---------|---------------|--------------|----------|--------|--------|
| R6329 | 1-208-807-11 | METAL CHIP | 11K | 0.5% | 1/10W | C6019 | 1-126-961-11 | ELECT | 2.2UF | 20.00% | 50V |
| R6333 | 1-208-806-11 | METAL CHIP | 10K | 0.5% | 1/10W | C6020 | 1-126-968-11 | ELECT | 100UF | 20.00% | 50V |
| R6334 | 1-216-041-00 | RES-CHIP | 470 | 5% | 1/10W | C6022 | 1-109-834-11 | ELECT(BLOCK) | 1500UF | 20.00% | 250V |
| | | | | | | C6023 | 1-109-834-11 | ELECT(BLOCK) | 1500UF | 20.00% | 250V |
| R6335 | 1-216-071-00 | RES-CHIP | 8.2K | 5% | 1/10W | C6025 | 1-115-389-11 | FILM | 0.018UF | 3.00% | 800V |
| R6336 | 1-208-802-11 | METAL CHIP | 6.8K | 0.5% | 1/10W | | | | | | |
| <RELAY> | | | | | | C6026 | 1-125-969-91 | CERAMIC | 680PF | 10.00% | 1KV |
| RY6000△1-755-352-11 RELAY, AC POWER | | | | | | C6027 | 1-115-824-11 | ELECT | 18UF | 20.00% | 50V |
| <TUNER> | | | | | | C6028 | 1-104-588-11 | FILM | 0.0082UF | 2.50% | 1.25KV |
| T6001 | △1-424-505-11 | TRANSFORMER, LINE FILTER | | | | C6029 | 1-102-106-00 | CERAMIC | 100PF | 10.00% | 50V |
| T6002 | △1-424-505-11 | TRANSFORMER, LINE FILTER | | | | C6030 | 1-136-189-00 | MYLAR | 0.1UF | 10.00% | 250V |
| T6003 | △1-431-445-11 | TRANSFORMER, CONVERTER (PFT) | | | | C6031 | 1-125-969-91 | CERAMIC | 680PF | 10.00% | 1KV |
| T6004 | △1-435-443-11 | TRANSFORMER, CONVERTER (PIT) | | | | C6033 | 1-126-963-11 | ELECT | 4.7UF | 20.00% | 50V |
| T6005 | △1-435-445-11 | TRANSFORMER, CONVERTER (PIT) | | | | C6034 | 1-130-029-00 | FILM | 8200PF | 2.00% | 50V |
| | | | | | | C6035 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| T6100 | △1-433-844-11 | TRANSFORMER, CONVERTER | | | | C6036 | 1-107-906-11 | ELECT | 10UF | 20.00% | 50V |
| <THERMISTOR> | | | | | | C6037 | 1-137-150-11 | MYLAR | 0.01UF | 5.00% | 50V |
| TH6100 | 1-803-586-11 | THERMISTOR, NTC | | | | C6038 | 1-104-588-11 | FILM | 0.0082UF | 2.50% | 1.25KV |
| <VARISTOR> | | | | | | C6039 | 1-115-389-11 | FILM | 0.018UF | 3.00% | 800V |
| VD6001△1-803-830-31 | VARISTOR (ERZV14D621) | | | | | C6041 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V |
| VD6002△1-803-830-31 | VARISTOR (ERZV14D621) | | | | | C6042 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V |
| ***** | | | | | | C6043 | 1-104-663-11 | ELECT | 33UF | 20.00% | 16V |
| * A-1316-514-A G1 BOARD, COMPLETE | | | | | | C6044 | 1-117-703-11 | CERAMIC | 0.0047UF | 99% | 250V |
| (ER43M61/M91, ER53M61/M91) | | | | | | C6045 | 1-107-675-11 | ELECT | 1UF | 20.00% | 450V |
| ***** | | | | | | C6046 | 1-107-675-11 | ELECT | 1UF | 20.00% | 450V |
| 1-533-725-11 HOLDER, FUSE | | | | | | C6100 | △1-161-964-51 | CERAMIC | 0.0047UF | | 250V |
| * 4-374-846-01 COVER, CAPACITOR, CAP TYPE | | | | | | C6101 | 1-107-680-91 | ELECT | 22UF | 20.00% | 450V |
| 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | | | C6102 | △1-161-964-51 | CERAMIC | 0.0047UF | | 250V |
| <CAPACITOR> | | | | | | C6103 | 1-163-005-91 | CERAMIC CHIP | 470PF | 10.00% | 50V |
| C6000 | △1-104-708-11 | MYLAR | 0.47UF | 20.00% | 250V | C6104 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V |
| C6001 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V | C6105 | 1-164-004-11 | CERAMIC CHIP | 0.1UF | 10.00% | 25V |
| C6003 | △1-104-706-11 | MYLAR | 0.22UF | 20.00% | 250V | C6106 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V |
| C6006 | 1-126-961-11 | ELECT | 2.2UF | 20.00% | 50V | C6107 | 1-137-605-11 | MYLAR | 0.01UF | 10.00% | 250V |
| C6007 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V | C6108 | 1-161-964-51 | CERAMIC | 0.0047UF | | 250V |
| C6008 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V | C6109 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| C6009 | △1-104-706-11 | MYLAR | 0.22UF | 20.00% | 250V | C6110 | 1-163-009-91 | CERAMIC CHIP | 0.001UF | 10.00% | 50V |
| C6010 | △1-119-894-51 | CERAMIC | 2200PF | 20.00% | 250V | C6111 | △1-161-964-51 | CERAMIC | 0.0047UF | | 250V |
| C6011 | △1-119-894-51 | CERAMIC | 2200PF | 20.00% | 250V | C6300 | 1-101-810-00 | CERAMIC | 100PF | 5.00% | 500V |
| C6013 | △1-161-964-91 | CERAMIC | 0.0047UF | | 250V | C6301 | 1-101-810-00 | CERAMIC | 100PF | 5.00% | 500V |
| C6014 | 1-163-021-91 | CERAMIC CHIP | 0.01UF | 10.00% | 50V | C6302 | 1-102-114-00 | CERAMIC | 470PF | 10.00% | 50V |
| C6015 | △1-161-964-91 | CERAMIC | 0.0047UF | | 250V | C6303 | 1-102-114-00 | CERAMIC | 470PF | 10.00% | 50V |
| C6016 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V | C6306 | 1-101-810-00 | CERAMIC | 100PF | 5.00% | 500V |
| C6017 | △1-161-964-51 | CERAMIC | 0.0047UF | | 250V | C6307 | 1-126-943-11 | ELECT | 2200UF | 20.00% | 25V |
| C6018 | △1-161-964-51 | CERAMIC | 0.0047UF | | 250V | C6308 | 1-126-937-11 | ELECT | 4700UF | 20.00% | 16V |
| | | | | | | C6309 | 1-101-810-00 | CERAMIC | 100PF | 5.00% | 500V |
| | | | | | | C6310 | 1-101-810-00 | CERAMIC | 100PF | 5.00% | 500V |
| | | | | | | C6311 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| | | | | | | C6312 | 1-104-665-11 | ELECT | 100UF | 20.00% | 25V |
| | | | | | | C6313 | 1-126-960-11 | ELECT | 1UF | 20.00% | 50V |
| | | | | | | C6314 | 1-128-567-51 | ELECT | 1000UF | 20.00% | 100V |
| | | | | | | C6315 | 1-128-567-51 | ELECT | 1000UF | 20.00% | 100V |
| | | | | | | C6317 | 1-109-954-11 | ELECT | 0.47UF | 20.00% | 160V |
| | | | | | | C6321 | 1-128-549-11 | ELECT | 3300UF | 20.00% | 35V |
| | | | | | | C6322 | 1-128-549-11 | ELECT | 3300UF | 20.00% | 35V |
| | | | | | | C6323 | 1-128-549-11 | ELECT | 3300UF | 20.00% | 35V |
| | | | | | | C6324 | 1-128-549-11 | ELECT | 3300UF | 20.00% | 35V |
| | | | | | | C6325 | 1-126-935-11 | ELECT | 470UF | 20.00% | 6.3V |

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and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|-------------|--------------------------|----------------------------|---------------------|--------------|--------------------------|----------------------|--------|
| C6327 | 1-126-968-11 | ELECT | 100UF 20.00% 50V | D6105 | 8-719-948-45 | DIODE ERA22-08 | |
| C6328 | 1-126-968-11 | ELECT | 100UF 20.00% 50V | D6108 | 8-719-063-73 | DIODE D1NL20U-TR | |
| C6329 | 1-126-943-11 | ELECT | 2200UF 20.00% 25V | D6300 | 8-719-057-96 | DIODE D10SC6M-4012 | |
| C6330 | 1-126-943-11 | ELECT | 2200UF 20.00% 25V | D6301 | 8-719-510-12 | DIODE D10SC4M | |
| C6331 | 1-107-641-11 | ELECT | 220UF 20.00% 160V | D6302 | 8-719-312-47 | DIODE RBA-406B | |
| C6332 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6304 | 8-719-050-18 | DIODE D4SBL20U | |
| C6333 | 1-104-665-11 | ELECT | 100UF 20.00% 25V | D6305 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6334 | 1-126-940-11 | ELECT | 330UF 20.00% 25V | D6307 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6335 | 1-126-967-11 | ELECT | 47UF 20.00% 50V | D6308 | 8-719-988-31 | DIODE D10SC6MR | |
| C6337 | 1-101-810-00 | CERAMIC | 100PF 5.00% 500V | D6309 | 8-719-057-96 | DIODE D10SC6M-4012 | |
| C6338 | 1-162-117-00 | CERAMIC | 100PF 10.00% 500V | D6310 | 8-719-052-91 | DIODE D4SBS4-F | |
| C6339 | 1-104-987-11 | MYLAR | 0.001UF 10.00% 200V | D6312 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C6340 | 1-164-004-11 | CERAMIC CHIP | 0.1UF 10.00% 25V | D6315 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| <CONNECTOR> | | | | D6316 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| CN6002 | 1-695-915-11 | TAB (CONTACT) | | D6317 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| CN6004 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P | D6318 | 8-719-110-36 | DIODE RD13ES-B2 | |
| CN6006 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P | D6319 | 8-719-083-60 | DIODE UDZSTE-174.7B | |
| CN6007 | * 1-691-291-11 | PIN, CONNECTOR (PC BOARD) | 5P | D6320 | 8-719-083-60 | DIODE UDZSTE-174.7B | |
| CN6011 | * 1-508-784-21 | PIN, CONNECTOR (5MM PITCH) | 1P | D6323 | 8-719-032-12 | DIODE D1NS6 | |
| CN6300 | * 1-564-508-11 | PLUG, CONNECTOR | 5P | <FUSE> | | | |
| CN6301 | * 1-508-765-00 | PIN, CONNECTOR (5MM PITCH) | 3P | F6001 | \triangle 1-532-506-51 | FUSE | |
| CN6302 | * 1-764-333-11 | PLUG, CONNECTOR | 10P | <FERRITBEAD> | | | |
| CN6303 | * 1-764-333-11 | PLUG, CONNECTOR | 10P | FB6002 | 1-412-911-11 | FERRITE | 0UH |
| CN6304 | * 1-573-963-11 | PIN, CONNECTOR (PC BOARD) | 3P | FB6101 | \triangle 1-412-911-11 | FERRITE | 0UH |
| CN6306 | 1-695-915-11 | TAB (CONTACT) | | FB6103 | \triangle 1-412-911-11 | FERRITE | 0UH |
| CN6307 | 1-695-915-11 | TAB (CONTACT) | | FB6301 | 1-412-911-11 | FERRITE | 0UH |
| CN6308 | 1-695-915-11 | TAB (CONTACT) | | FB6302 | 1-412-911-11 | FERRITE | 0UH |
| <DIODE> | | | | FB6303 | 1-412-911-11 | FERRITE | 0UH |
| D6000 | 8-719-052-90 | DIODE D1NL40-TA2 | | FB6304 | 1-412-911-11 | FERRITE | 0UH |
| D6001 | 8-719-052-90 | DIODE D1NL40-TA2 | | FB6305 | 1-412-911-11 | FERRITE | 0UH |
| D6002 | 8-719-988-61 | DIODE 1SS355TE-17 | | FB6306 | 1-412-911-11 | FERRITE | 0UH |
| D6003 | 8-719-083-82 | DIODE UDZS-TE17-12B | | FB6307 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| D6004 | 8-719-991-33 | DIODE 1SS133T-77 | | FB6308 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| D6005 | 8-719-988-61 | DIODE 1SS355TE-17 | | FB6309 | 1-412-911-11 | FERRITE | 0UH |
| D6006 | 8-719-988-61 | DIODE 1SS355TE-17 | | FB6310 | 1-412-911-11 | FERRITE | 0UH |
| D6007 | 8-719-988-61 | DIODE 1SS355TE-17 | | <IC> | | | |
| D6008 | 8-719-991-33 | DIODE 1SS133T-77 | | IC6000 | 8-759-198-31 | IC UPC1093J-1-T | |
| D6009 | 8-719-083-82 | DIODE UDZS-TE17-12B | | IC6001 | 8-759-133-90 | IC UPC339C | |
| D6010 | 8-719-988-61 | DIODE 1SS355TE-17 | | IC6002 | \triangle 8-749-924-35 | IC ON3171-R | |
| D6011 | 8-719-988-61 | DIODE 1SS355TE-17 | | IC6003 | \triangle 8-749-924-35 | IC ON3171-R | |
| D6015 | \triangle 8-719-022-99 | DIODE D6SB60L | | IC6004 | 8-749-016-66 | IC MCR5152 | |
| D6017 | 8-719-063-73 | DIODE D1NL20U-TR | | IC6005 | \triangle 8-749-924-35 | IC ON3171-R | |
| D6018 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | IC6006 | 8-759-198-31 | IC UPC1093J-1-T | |
| D6019 | 8-719-510-02 | DIODE D1NS4 | | IC6007 | \triangle 8-749-924-35 | IC ON3171-R | |
| D6021 | 8-719-110-36 | DIODE RD13ES-B2 | | IC6301 | 8-749-012-13 | IC DM-58 | |
| D6022 | 8-719-979-64 | DIODE UF4005PKG23 | | IC6302 | 8-759-663-29 | IC MM1476AF(TP) | |
| D6023 | 8-719-979-64 | DIODE UF4005PKG23 | | IC6303 | 8-759-198-31 | IC UPC1093J-1-T | |
| D6024 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | | |
| D6025 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | | |
| D6100 | \triangle 8-719-077-76 | DIODE D2SB60A-F04 | | | | | |
| D6101 | 8-719-068-00 | DIODE ERC04-06SE | | | | | |
| D6102 | 8-719-083-83 | DIODE UDZS-TE17-15B | | | | | |
| D6103 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | | |

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|-----------------------|-----------------------------|------------|---------|-----------------------|----------------------|------------|
| | | <COIL> | | | | | |
| L6303 | 1-412-525-31 | INDUCTOR 10UH | | R6015 | 1-215-489-00 | METAL 680K | 1% 1/4W |
| L6304 | 1-406-659-11 | INDUCTOR 10UH | | R6016 | 1-216-081-00 | RES-CHIP 22K | 5% 1/10W |
| L6307 | 1-412-525-31 | INDUCTOR 10UH | | R6017 | 1-208-830-11 | METAL CHIP 100K | 0.5% 1/10W |
| L6308 | 1-412-525-31 | INDUCTOR 10UH | | R6018 | 1-208-844-11 | METAL CHIP 390K | 0.5% 1/10W |
| L6309 | 1-412-525-31 | INDUCTOR 10UH | | R6019 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W |
| L6310 | 1-412-525-31 | INDUCTOR 10UH | | R6020 | 1-208-827-11 | METAL CHIP 75K | 0.5% 1/10W |
| L6311 | 1-412-525-31 | INDUCTOR 10UH | | R6021 | 1-208-830-11 | METAL CHIP 100K | 0.5% 1/10W |
| L6312 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6022 | 1-208-846-11 | METAL CHIP 470K | 0.5% 1/10W |
| L6313 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | R6023 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W |
| L6314 | 1-412-524-11 | INDUCTOR 8.2UH | | R6024 | 1-208-846-11 | METAL CHIP 470K | 0.5% 1/10W |
| L6315 | 1-412-524-11 | INDUCTOR 8.2UH | | R6025 | 1-216-057-00 | RES-CHIP 2.2K | 5% 1/10W |
| | | <PROTECTOR> | | R6026 | Δ 1-218-265-11 | METAL 8.2M | 5% 1W |
| PS6300 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6027 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| PS6301 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6028 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| PS6302 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6029 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W |
| PS6303 | Δ 1-801-549-21 | PROTECTOR, MODULE | | R6030 | 1-216-089-91 | RES-CHIP 47K | 5% 1/10W |
| PS6306 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6031 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| PS6307 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6032 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| PS6310 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6033 | 1-216-065-91 | RES-CHIP 4.7K | 5% 1/10W |
| PS6311 | Δ 1-801-550-21 | PROTECTOR, MODUL | | R6036 | 1-208-830-11 | METAL CHIP 100K | 0.5% 1/10W |
| | | <TRANSISTOR> | | R6038 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6000 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R6041 | 1-208-822-11 | METAL CHIP 47K | 0.5% 1/10W |
| Q6002 | 8-729-140-97 | TRANSISTOR 2SB734-34 | | R6042 | 1-208-822-11 | METAL CHIP 47K | 0.5% 1/10W |
| Q6003 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R6043 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6004 | 8-729-140-93 | TRANSISTOR 2SB733-34 | | R6044 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| Q6005 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R6045 | 1-208-819-11 | METAL CHIP 36K | 0.5% 1/10W |
| Q6100 | 8-729-046-40 | TRANSISTOR 2SK2663 | | R6046 | 1-215-489-00 | METAL 680K | 1% 1/4W |
| Q6102 | 8-729-023-22 | TRANSISTOR 2SD2114K | | R6047 | 1-215-489-00 | METAL 680K | 1% 1/4W |
| Q6300 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R6048 | 1-215-489-00 | METAL 680K | 1% 1/4W |
| Q6301 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R6050 | 1-205-943-11 | CEMENTED 1 | 5% 20W |
| Q6302 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R6051 | 1-208-824-11 | METAL CHIP 56K | 0.5% 1/10W |
| Q6303 | 8-729-820-82 | TRANSISTOR 2SA1208-T | | R6052 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| | | <RESISTOR> | | R6053 | 1-208-792-11 | METAL CHIP 2.7K | 0.5% 1/10W |
| R6000 | 1-260-131-11 | CARBON 470K | 5% 1/2W | R6054 | 1-208-774-11 | METAL CHIP 470 | 0.5% 1/10W |
| R6001 | 1-260-131-11 | CARBON 470K | 5% 1/2W | R6055 | 1-208-805-11 | METAL CHIP 9.1K | 0.5% 1/10W |
| R6002 | 1-202-981-11 | CEMENTED 0.82 | 5% 20W | R6056 | 1-217-625-00 | METAL 0.05 | 10% 2W |
| R6003 | Δ 1-219-759-11 | CARBON 1M | 5% 1/2W | R6057 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| R6004 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | R6058 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| R6005 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | R6059 | 1-215-477-00 | METAL 220K | 1% 1/4W |
| R6006 | 1-208-832-11 | METAL CHIP 120K | 0.5% 1/10W | R6060 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W |
| R6007 | 1-208-827-11 | METAL CHIP 75K | 0.5% 1/10W | R6061 | Δ 1-220-886-11 | FUSIBLE 0.1 | 10% 1W |
| R6008 | 1-215-489-00 | METAL 680K | 1% 1/4W | R6062 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% 1/10W |
| R6009 | 1-215-489-00 | METAL 680K | 1% 1/4W | R6065 | 1-219-512-11 | CARBON 2.2M | 5% 1/2W |
| R6010 | 1-215-489-00 | METAL 680K | 1% 1/4W | R6067 | 1-249-397-11 | CARBON 22 | 5% 1/4W |
| R6011 | 1-208-798-11 | METAL CHIP 4.7K | 0.5% 1/10W | R6071 | 1-202-981-11 | CEMENTED 0.82 | 5% 20W |
| R6012 | 1-208-832-11 | METAL CHIP 120K | 0.5% 1/10W | R6072 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| R6013 | 1-215-489-00 | METAL 680K | 1% 1/4W | R6074 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| R6014 | 1-215-489-00 | METAL 680K | 1% 1/4W | R6075 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | |
| | | | | R6076 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| | | | | R6077 | 1-216-689-11 | RES-CHIP 39K | 5% 1/10W |
| | | | | R6078 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| | | | | R6079 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| | | | | R6100 | 1-260-298-51 | CARBON 3.3 | 5% 1/2W |
| | | | | R6101 | 1-216-045-00 | RES-CHIP 680 | 5% 1/10W |
| | | | | R6102 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| | | | | R6103 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------------|--------------|------------------------------|-----------------|-----------------------------------|--------------|-----------------------|------------|
| R6104 | 1-240-205-11 | CARBON | 22M 5% 1/2W | <VARISTOR > | | | |
| R6105 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | VD6000 | 1-803-614-11 | VARISTOR ENE471D-20A | |
| R6106 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | VD6001 \triangle | 1-803-830-31 | VARISTOR (ERZV14D621) | |
| R6107 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | VD6002 \triangle | 1-803-830-31 | VARISTOR (ERZV14D621) | |
| R6108 | 1-215-493-00 | METAL | 1M 1% 1/4W | ***** | | | |
| R6109 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | * A-1136-087-A B3 BOARD, COMPLETE | | | |
| R6300 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | ***** | | | |
| R6301 | 1-249-413-11 | CARBON | 470 5% 1/4W | <CAPACITOR> | | | |
| R6302 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C333 | 1-216-295-91 | SHORT 0 | |
| R6304 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C368 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6305 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C369 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6306 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | C372 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6307 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C373 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6308 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C374 | 1-126-603-11 | ELECT CHIP 4.7UF | 20.00% 35V |
| R6309 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C375 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6310 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C376 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6311 | 1-215-477-00 | METAL | 220K 1% 1/4W | C377 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6312 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C378 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6313 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | C501 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6314 | 1-216-385-11 | METAL OXIDE | 0.47 5% 3W | C502 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| R6316 | 1-215-477-00 | METAL | 220K 1% 1/4W | C503 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| R6317 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C505 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| R6318 | 1-215-453-00 | METAL | 22K 1% 1/4W | C507 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| R6319 | 1-215-476-00 | METAL | 200K 1% 1/4W | C509 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6320 | 1-208-806-11 | METAL CHIP | 10K 0.5% 1/10W | C510 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6321 | 1-208-822-11 | METAL CHIP | 47K 0.5% 1/10W | C511 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R6322 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | C512 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6323 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | C514 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| R6324 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C515 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6325 | 1-208-819-11 | METAL CHIP | 36K 0.5% 1/10W | C516 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| R6326 | 1-208-798-11 | METAL CHIP | 4.7K 0.5% 1/10W | C517 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6328 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C518 | 1-126-204-11 | ELECT CHIP 47UF | 20.00% 16V |
| R6329 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | C519 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R6330 | 1-208-813-11 | METAL CHIP | 20K 0.5% 1/10W | C520 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| R6331 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | C521 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| R6332 | 1-208-819-11 | METAL CHIP | 36K 0.5% 1/10W | C522 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| <RELAY> | | | | C523 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| RY6000 \triangle | 1-755-357-11 | RELAY, AC POWER | | C524 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| RY6001 \triangle | 1-755-357-11 | RELAY, AC POWER | | C525 | 1-126-394-11 | ELECT CHIP 10UF | 20.00% 16V |
| <TRANSFORMER> | | | | C526 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| T6001 \triangle | 1-424-248-11 | TRANSFORMER, LINE FILTER | | C527 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| T6002 \triangle | 1-424-248-11 | TRANSFORMER, LINE FILTER | | C528 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| T6004 \triangle | 1-435-443-11 | TRANSFORMER, CONVERTER (PIT) | | C529 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| T6005 \triangle | 1-435-445-11 | TRANSFORMER, CONVERTER (PIT) | | C531 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| T6100 \triangle | 1-435-444-11 | TRANSFORMER, STAND-BY | | C533 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| <THERMISTOR> | | | | C535 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| TH6100 | 1-803-586-11 | THERMISTOR, NTC | | C536 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| | | | | C537 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| | | | | C538 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| | | | | C539 | 1-126-204-11 | ELECT CHIP 47UF | 20.00% 16V |
| | | | | C540 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |

B3

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|---------------------|-------------|---------|--------------|-----------------------|-------------|
| C542 | 1-126-204-11 | ELECT CHIP 47UF | 20.00% 16V | C644 | 1-126-398-11 | ELECT CHIP 4.7UF | 20.00% 35V |
| C543 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C645 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C545 | 1-126-396-11 | ELECT CHIP 47UF | 20.00% 16V | C801 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C546 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C802 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C548 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C803 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C549 | 1-126-204-11 | ELECT CHIP 47UF | 20.00% 16V | C804 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C550 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C806 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C551 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C807 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C554 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C808 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C555 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C809 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C556 | 1-126-392-11 | ELECT CHIP 100UF | 20.00% 6.3V | C810 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C557 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C811 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C559 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C812 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C560 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C813 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C601 | 1-126-394-11 | ELECT CHIP 10UF | 20.00% 16V | C814 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C602 | 1-126-394-11 | ELECT CHIP 10UF | 20.00% 16V | C815 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C603 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C816 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C604 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C817 | 1-163-229-11 | CERAMIC CHIP 12PF | 5.00% 50V |
| C605 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C818 | 1-163-229-11 | CERAMIC CHIP 12PF | 5.00% 50V |
| C606 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C819 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C607 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C820 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C608 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C821 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C609 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C822 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C610 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C823 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C611 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C824 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C612 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C827 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C613 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C829 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C614 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C834 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C615 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C835 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C616 | 1-126-396-11 | ELECT CHIP 47UF | 20.00% 16V | C839 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C617 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C840 | 1-126-206-11 | ELECT CHIP 100UF | 20.00% 6.3V |
| C618 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C841 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C619 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | C842 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C620 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C843 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C621 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C844 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C622 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C848 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C623 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C849 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C624 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C850 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C625 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C851 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C626 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C853 | 1-164-182-11 | CERAMIC CHIP 0.0033UF | 10.00% 50V |
| C627 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C854 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C628 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C901 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C629 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C902 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| C630 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C903 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C631 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C904 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C632 | 1-126-206-11 | ELECT CHIP 100UF | 20.00% 6.3V | C905 | 1-109-982-11 | CERAMIC CHIP 1UF | 10.00% 10V |
| C633 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C906 | 1-124-779-00 | ELECT CHIP 10UF | 20.00% 16V |
| C634 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C907 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C635 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C908 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C636 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C909 | 1-126-396-11 | ELECT CHIP 47UF | 20.00% 16V |
| C637 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C910 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| C638 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C913 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C639 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C914 | 1-126-394-11 | ELECT CHIP 10UF | 20.00% 16V |
| C640 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C950 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C642 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C954 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C643 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | | | | |

B3

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------------------------|--------|---------|--------------|-------------------------|--------|
| | | <CONNECTOR> | | IC315 | 8-759-525-10 | IC TC7SET08F(TE85L) | |
| | | | | IC316 | 8-759-525-10 | IC TC7SET08F(TE85L) | |
| | | | | IC501 | 8-759-447-90 | IC TLC5733AIPM | |
| CN502 | 1-695-302-11 | CONNECTOR, BOARD TO BOARD 50P | | IC504 | 8-759-669-78 | IC TLC2933IPWR-12 | |
| | | <DIODE> | | IC505 | 8-759-640-16 | IC TC7SET04F(TE85R) | |
| | | | | IC506 | 8-759-640-16 | IC TC7SET04F(TE85R) | |
| D501 | 8-719-083-58 | DIODE UDZSTE-173.9B | | IC601 | 8-752-398-47 | IC CXD2090Q | |
| D601 | 8-719-404-50 | DIODE MA111-TX | | IC602 | 8-759-573-19 | IC MSM56V16160D-10 | |
| | | <FERRITBEAD> | | IC603 | 8-759-669-75 | IC TLC2932IPWR | |
| | | | | IC604 | 8-752-072-94 | IC CXA1875AM-T4 | |
| FB501 | 1-414-813-11 | FERRITE 0UH | | IC801 | 8-759-672-57 | IC CXD9509AQ | |
| FB502 | 1-414-813-11 | FERRITE 0UH | | IC802 | 8-759-677-37 | IC MT48LC2M32B2TG-7 | |
| FB503 | 1-414-813-11 | FERRITE 0UH | | IC803 | 8-759-460-29 | IC PST9120NL | |
| FB504 | 1-414-813-11 | FERRITE 0UH | | IC901 | 8-752-367-59 | IC CXD2309Q | |
| FB601 | 1-414-553-11 | FERRITE 0UH | | IC902 | 8-759-829-33 | IC MB94918RPF-G-133-BND | |
| | | | | IC903 | 6-700-149-01 | IC M24C04-MN6T(A) | |
| FB801 | 1-414-553-11 | FERRITE 0UH | | IC904 | 8-759-349-11 | IC PST9145NL | |
| FB802 | 1-414-553-11 | FERRITE 0UH | | | | <COIL> | |
| | | <FILTER> | | L304 | 1-412-029-11 | INDUCTOR 10UH | |
| FL306 | 1-239-558-11 | FILTER, CHIP EMI | | L305 | 1-412-029-11 | INDUCTOR 10UH | |
| FL501 | 1-233-877-11 | FILTER, LOW PASS | | L501 | 1-412-026-11 | INDUCTOR 1UH | |
| FL502 | 1-233-504-21 | FILTER, LOW PASS | | L502 | 1-412-026-11 | INDUCTOR 1UH | |
| FL503 | 1-233-504-21 | FILTER, LOW PASS | | L503 | 1-412-026-11 | INDUCTOR 1UH | |
| FL504 | 1-234-177-21 | FILTER, CHIP EMI | | L504 | 1-412-026-11 | INDUCTOR 1UH | |
| FL505 | 1-234-177-21 | FILTER, CHIP EMI | | L505 | 1-412-029-11 | INDUCTOR 10UH | |
| FL506 | 1-234-177-21 | FILTER, CHIP EMI | | L506 | 1-412-026-11 | INDUCTOR 1UH | |
| FL508 | 1-234-177-21 | FILTER, CHIP EMI | | L508 | 1-412-029-11 | INDUCTOR 10UH | |
| FL509 | 1-234-177-21 | FILTER, CHIP EMI | | L509 | 1-412-029-11 | INDUCTOR 10UH | |
| FL510 | 1-234-177-21 | FILTER, CHIP EMI | | L511 | 1-412-026-11 | INDUCTOR 1UH | |
| FL511 | 1-234-177-21 | FILTER, CHIP EMI | | L512 | 1-412-026-11 | INDUCTOR 1UH | |
| FL512 | 1-234-177-21 | FILTER, CHIP EMI | | L604 | 1-412-029-11 | INDUCTOR 10UH | |
| FL601 | 1-234-177-21 | FILTER, CHIP EMI | | L605 | 1-412-029-11 | INDUCTOR 10UH | |
| FL602 | 1-234-177-21 | FILTER, CHIP EMI | | | | <TRANSISTOR> | |
| FL603 | 1-234-177-21 | FILTER, CHIP EMI | | Q304 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL606 | 1-239-560-11 | FILTER, CHIP EMI | | Q501 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL801 | 1-234-177-21 | FILTER, CHIP EMI | | Q502 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL802 | 1-234-177-21 | FILTER, CHIP EMI | | Q503 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL803 | 1-234-177-21 | FILTER, CHIP EMI | | Q510 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL804 | 1-234-177-21 | FILTER, CHIP EMI | | Q511 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL806 | 1-234-177-21 | FILTER, CHIP EMI | | Q512 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL807 | 1-234-177-21 | FILTER, CHIP EMI | | Q513 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL808 | 1-234-177-21 | FILTER, CHIP EMI | | Q514 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL901 | 1-233-878-11 | FILTER, LOW PASS | | Q515 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL902 | 1-233-876-11 | FILTER, LOW PASS | | Q516 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL903 | 1-233-876-11 | FILTER, LOW PASS | | Q517 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FL904 | 1-234-177-21 | FILTER, CHIP EMI | | Q518 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL905 | 1-234-177-21 | FILTER, CHIP EMI | | Q519 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| FL906 | 1-234-177-21 | FILTER, CHIP EMI | | Q520 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| FL907 | 1-234-177-21 | FILTER, CHIP EMI | | Q521 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | <IC> | | Q522 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| IC313 | 8-759-669-75 | IC TLC2932IPWR | | Q523 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| IC314 | 8-759-525-10 | IC TC7SET08F(TE85L) | | Q524 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | | | Q601 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |

B3

| REF.NO. | PART NO. | DESCRIPTION | REMARK | | | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------|--------------|---------------------------|--------|-------|--|---------|--------------|-----------------|--------|-------|--|
| Q602 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | R532 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% | 1/10W | |
| Q901 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R533 | 1-216-031-00 | RES-CHIP 180 | 5% | 1/10W | |
| Q902 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R534 | 1-216-057-00 | RES-CHIP 2.2K | 5% | 1/10W | |
| Q903 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R535 | 1-216-057-00 | RES-CHIP 2.2K | 5% | 1/10W | |
| Q904 | 8-729-028-28 | TRANSISTOR 2SK2036(TE85L) | | | | R536 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| Q905 | 8-729-028-28 | TRANSISTOR 2SK2036(TE85L) | | | | R537 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% | 1/10W | |
| Q906 | 1-801-806-11 | TRANSISTOR DTC144EKA | | | | R540 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| Q907 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R548 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| Q908 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R549 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| Q909 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | R550 | 1-208-756-11 | METAL CHIP 82 | 0.5% | 1/10W | |
| | | | | | | R551 | 1-208-756-11 | METAL CHIP 82 | 0.5% | 1/10W | |
| | | | | | | R552 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| | <RESISTOR> | | | | | R553 | 1-216-295-91 | SHORT 0 | | | |
| R310 | 1-216-009-91 | RES-CHIP 22 | 5% | 1/10W | | R554 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| R334 | 1-216-295-91 | SHORT 0 | | | | R555 | 1-216-077-91 | RES-CHIP 15K | 5% | 1/10W | |
| R339 | 1-216-295-91 | SHORT 0 | | | | R557 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R350 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | | R558 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | |
| R361 | 1-216-061-91 | RES-CHIP 3.3K | 5% | 1/10W | | R559 | 1-216-077-91 | RES-CHIP 15K | 5% | 1/10W | |
| R362 | 1-216-057-00 | RES-CHIP 2.2K | 5% | 1/10W | | R560 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| R363 | 1-216-037-00 | RES-CHIP 330 | 5% | 1/10W | | R561 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | |
| R364 | 1-216-295-91 | SHORT 0 | | | | R562 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | |
| R365 | 1-216-047-91 | RES-CHIP 820 | 5% | 1/10W | | R563 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | |
| R366 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | | R564 | 1-216-065-91 | RES-CHIP 4.7K | 5% | 1/10W | |
| R367 | 1-216-117-00 | RES-CHIP 680K | 5% | 1/10W | | R565 | 1-216-065-91 | RES-CHIP 4.7K | 5% | 1/10W | |
| R368 | 1-216-117-00 | RES-CHIP 680K | 5% | 1/10W | | R566 | 1-216-065-91 | RES-CHIP 4.7K | 5% | 1/10W | |
| R369 | 1-216-295-91 | SHORT 0 | | | | R571 | 1-216-295-91 | SHORT 0 | | | |
| R371 | 1-216-057-00 | RES-CHIP 2.2K | 5% | 1/10W | | R572 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| R372 | 1-216-009-91 | RES-CHIP 22 | 5% | 1/10W | | R575 | 1-208-756-11 | METAL CHIP 82 | 0.5% | 1/10W | |
| R373 | 1-216-066-00 | RES-CHIP 5.1K | 5% | 1/10W | | R576 | 1-208-756-11 | METAL CHIP 82 | 0.5% | 1/10W | |
| R501 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | | R577 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| R502 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | | R578 | 1-208-750-11 | METAL CHIP 47 | 0.5% | 1/10W | |
| R503 | 1-216-295-91 | SHORT 0 | | | | R579 | 1-216-077-91 | RES-CHIP 15K | 5% | 1/10W | |
| R504 | 1-216-295-91 | SHORT 0 | | | | R580 | 1-216-295-91 | SHORT 0 | | | |
| R505 | 1-216-295-91 | SHORT 0 | | | | R582 | 1-216-041-00 | RES-CHIP 470 | 5% | 1/10W | |
| R506 | 1-216-009-91 | RES-CHIP 22 | 5% | 1/10W | | R584 | 1-216-041-00 | RES-CHIP 470 | 5% | 1/10W | |
| R507 | 1-216-009-91 | RES-CHIP 22 | 5% | 1/10W | | R586 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R508 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | | R587 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R509 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | | R589 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R510 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R590 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R511 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R591 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R512 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R592 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R513 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R594 | 1-216-041-00 | RES-CHIP 470 | 5% | 1/10W | |
| R514 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R596 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | |
| R515 | 1-216-043-91 | RES-CHIP 560 | 5% | 1/10W | | R597 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R516 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | | R598 | 1-216-025-11 | RES-CHIP 100 | 5% | 1/10W | |
| R517 | 1-216-049-11 | RES-CHIP 1K | 5% | 1/10W | | R600 | 1-216-066-00 | RES-CHIP 5.1K | 5% | 1/10W | |
| R518 | 1-216-295-91 | SHORT 0 | | | | R601 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R520 | 1-208-776-11 | METAL CHIP 560 | 0.5% | 1/10W | | R602 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R521 | 1-216-295-91 | SHORT 0 | | | | R603 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R523 | 1-208-776-11 | METAL CHIP 560 | 0.5% | 1/10W | | R604 | 1-216-033-00 | RES-CHIP 220 | 5% | 1/10W | |
| R524 | 1-216-295-91 | SHORT 0 | | | | R605 | 1-216-295-91 | SHORT 0 | | | |
| R526 | 1-208-776-11 | METAL CHIP 560 | 0.5% | 1/10W | | R608 | 1-216-295-91 | SHORT 0 | | | |
| R528 | 1-216-037-00 | RES-CHIP 330 | 5% | 1/10W | | R609 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R529 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% | 1/10W | | R610 | 1-216-033-00 | RES-CHIP 220 | 5% | 1/10W | |
| R530 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% | 1/10W | | R611 | 1-216-073-91 | RES-CHIP 10K | 5% | 1/10W | |
| R531 | 1-216-031-00 | RES-CHIP 180 | 5% | 1/10W | | R613 | 1-216-065-91 | RES-CHIP 4.7K | 5% | 1/10W | |

B3

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|---------|--------------|-------------|-----------------|
| R615 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R691 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W |
| R616 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R692 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R617 | 1-216-295-91 | SHORT | 0 | R693 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R619 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R694 | 1-216-295-91 | SHORT | 0 |
| R621 | 1-216-295-91 | SHORT | 0 | R695 | 1-216-047-91 | RES-CHIP | 820 5% 1/10W |
| R622 | 1-216-295-91 | SHORT | 0 | | | | |
| R623 | 1-216-295-91 | SHORT | 0 | R696 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R624 | 1-216-295-91 | SHORT | 0 | R697 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W |
| R625 | 1-216-295-91 | SHORT | 0 | R698 | 1-216-117-00 | RES-CHIP | 680K 5% 1/10W |
| R626 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R699 | 1-216-295-91 | SHORT | 0 |
| R628 | 1-216-295-91 | SHORT | 0 | R801 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R629 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R802 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R631 | 1-216-295-91 | SHORT | 0 | R804 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R634 | 1-216-295-91 | SHORT | 0 | R806 | 1-208-800-11 | METAL CHIP | 5.6K 0.5% 1/10W |
| R635 | 1-216-295-91 | SHORT | 0 | R807 | 1-208-778-11 | METAL CHIP | 680 0.5% 1/10W |
| R638 | 1-216-295-91 | SHORT | 0 | R813 | 1-216-295-91 | SHORT | 0 |
| R639 | 1-216-019-00 | RES-CHIP | 56 5% 1/10W | R814 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R640 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W | R815 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R642 | 1-216-295-91 | SHORT | 0 | R816 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R643 | 1-216-295-91 | SHORT | 0 | R817 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R645 | 1-216-295-91 | SHORT | 0 | R823 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R651 | 1-216-295-91 | SHORT | 0 | R824 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R653 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R825 | 1-208-760-11 | METAL CHIP | 120 0.5% 1/10W |
| R654 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R826 | 1-208-758-11 | METAL CHIP | 100 0.5% 1/10W |
| R655 | 1-216-295-91 | SHORT | 0 | R827 | 1-216-607-11 | METAL CHIP | 15 0.5% 1/10W |
| R657 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W | R831 | 1-216-295-91 | SHORT | 0 |
| R658 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R832 | 1-216-295-91 | SHORT | 0 |
| R659 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R833 | 1-216-295-91 | SHORT | 0 |
| R660 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R834 | 1-208-760-11 | METAL CHIP | 120 0.5% 1/10W |
| R661 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R835 | 1-208-755-11 | METAL CHIP | 75 0.5% 1/10W |
| R664 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W | R836 | 1-211-960-11 | METAL CHIP | 22 0.5% 1/10W |
| R665 | 1-216-035-00 | RES-CHIP | 270 5% 1/10W | R844 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R666 | 1-216-646-11 | METAL CHIP | 620 0.5% 1/10W | R845 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R667 | 1-208-794-11 | METAL CHIP | 3.3K 0.5% 1/10W | R846 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R668 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W | R847 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R670 | 1-216-295-91 | SHORT | 0 | R848 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R671 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R849 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R672 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R850 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R673 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R851 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R674 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R852 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R675 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R853 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R676 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R854 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R677 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R855 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R678 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R856 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R679 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R857 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R680 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R858 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R681 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R859 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R682 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R860 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R683 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R861 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R684 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R862 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R685 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R863 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R686 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R864 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R687 | 1-216-295-91 | SHORT | 0 | R865 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R688 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W | R866 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R689 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R867 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R690 | 1-216-295-91 | SHORT | 0 | R868 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |

| REF.NO. | PART NO. | DESCRIPTION | REMARK | | | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------|--------------|-------------|--------|------|-------|---------|--------------|-------------|--------|------|-------|
| R869 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R938 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R870 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R940 | 1-216-295-91 | SHORT | 0 | | |
| R871 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R941 | 1-216-295-91 | SHORT | 0 | | |
| R872 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R942 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W |
| R873 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| | | | | | | R943 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W |
| R874 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R944 | 1-216-295-91 | SHORT | 0 | | |
| R875 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R945 | 1-216-295-91 | SHORT | 0 | | |
| R876 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R951 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W |
| R877 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R952 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W |
| R878 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| | | | | | | R956 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R879 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R957 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R880 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R958 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R881 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R959 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R882 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R960 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R883 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | | | | | | |
| | | | | | | R961 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R884 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R962 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W |
| R885 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R979 | 1-216-295-91 | SHORT | 0 | | |
| R886 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R981 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W |
| R887 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R982 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W |
| R888 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | | | | | | |
| | | | | | | R983 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R889 | 1-216-295-91 | SHORT | 0 | | | R984 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W |
| R890 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W | R985 | 1-216-113-00 | RES-CHIP | 470K | 5% | 1/10W |
| R891 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R986 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W |
| R892 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R987 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R893 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| | | | | | | R988 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W |
| R894 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R989 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W |
| R895 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R990 | 1-216-113-00 | RES-CHIP | 470K | 5% | 1/10W |
| R896 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R991 | 1-216-295-91 | SHORT | 0 | | |
| R897 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | R993 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R898 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| | | | | | | R994 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W |
| R899 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R995 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W |
| R901 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W | R996 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W |
| R902 | 1-208-790-11 | METAL CHIP | 2.2K | 0.5% | 1/10W | R998 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| R903 | 1-208-794-11 | METAL CHIP | 3.3K | 0.5% | 1/10W | R2801 | 1-208-760-11 | METAL CHIP | 120 | 0.5% | 1/10W |
| R904 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | | | | | | |
| | | | | | | R2802 | 1-208-754-11 | METAL CHIP | 68 | 0.5% | 1/10W |
| R905 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | R2803 | 1-216-603-11 | METAL CHIP | 10 | 0.5% | 1/10W |
| R906 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | R2804 | 1-208-760-11 | METAL CHIP | 120 | 0.5% | 1/10W |
| R907 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | R2805 | 1-208-755-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R908 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | R2806 | 1-211-960-11 | METAL CHIP | 22 | 0.5% | 1/10W |
| R909 | 1-216-635-11 | METAL CHIP | 220 | 0.5% | 1/10W | | | | | | |
| | | | | | | R2807 | 1-216-295-91 | SHORT | 0 | | |
| R910 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | R2808 | 1-216-295-91 | SHORT | 0 | | |
| R911 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | R2813 | 1-216-295-91 | SHORT | 0 | | |
| R912 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | R2815 | 1-216-295-91 | SHORT | 0 | | |
| R914 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | R2817 | 1-216-295-91 | SHORT | 0 | | |
| R916 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | | | | | | |
| | | | | | | R2818 | 1-216-295-91 | SHORT | 0 | | |
| R923 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | R2820 | 1-216-295-91 | SHORT | 0 | | |
| R924 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R2822 | 1-216-295-91 | SHORT | 0 | | |
| R926 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | | | | | | |
| R929 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
| R930 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|------------------------------------|--------------|------------------------------|------------|-------------|--------------|-------------------------------|------------|
| RB007 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C016 | 1-163-239-11 | CERAMIC CHIP 33PF | 5.00% 50V |
| RB008 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C017 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.50PF 50V |
| RB009 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C018 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| RB010 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C019 | 1-163-243-11 | CERAMIC CHIP 47PF | 5.00% 50V |
| RB011 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C020 | 1-163-245-11 | CERAMIC CHIP 56PF | 5.00% 50V |
| RB012 | 1-239-414-11 | NETWORK RESISTOR (CHIP) 150 | | C021 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.50PF 50V |
| RB013 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C022 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.50PF 50V |
| RB014 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C023 | 1-126-967-11 | ELECT 47UF | 20.00% 50V |
| RB015 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C024 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| RB016 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C025 | 1-126-933-11 | ELECT 100UF | 20.00% 16V |
| RB017 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C026 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| RB018 | 1-239-621-11 | NETWORK RESISTOR (CHIP) 22 | | C027 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| RB019 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C028 | 1-126-933-11 | ELECT 100UF | 20.00% 16V |
| RB020 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C030 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| RB021 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C032 | 1-126-933-11 | ELECT 100UF | 20.00% 16V |
| RB022 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C033 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| RB023 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C034 | 1-163-243-11 | CERAMIC CHIP 47PF | 5.00% 50V |
| RB024 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C035 | 1-163-001-11 | CERAMIC CHIP 220PF | 10.00% 50V |
| RB025 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C036 | 1-163-251-11 | CERAMIC CHIP 100PF | 5.00% 50V |
| RB026 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C037 | 1-163-251-11 | CERAMIC CHIP 100PF | 5.00% 50V |
| RB027 | 1-239-409-11 | NETWORK RESISTOR (CHIP) 47 | | C038 | 1-163-251-11 | CERAMIC CHIP 100PF | 5.00% 50V |
| RB701 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C039 | 1-163-251-11 | CERAMIC CHIP 100PF | 5.00% 50V |
| RB702 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C040 | 1-164-005-11 | CERAMIC CHIP 0.47UF | 25V |
| RB703 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C041 | 1-163-001-11 | CERAMIC CHIP 220PF | 10.00% 50V |
| RB704 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C042 | 1-163-001-11 | CERAMIC CHIP 220PF | 10.00% 50V |
| RB705 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C043 | 1-126-933-11 | ELECT 100UF | 20.00% 16V |
| RB706 | 1-239-711-91 | NETWORK RESISTOR (CHIP) 0 | | C045 | 1-104-665-11 | ELECT 100UF | 20.00% 25V |
| <CRYSTAL> | | | | C046 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| X802 | 1-795-112-21 | VIBRATOR, CRYSTAL (17.28MHz) | | C048 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| X901 | 1-760-014-11 | VIBRATOR, CERAMIC (20MHz) | | C049 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| ***** | | | | C050 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| * A-1300-347-A M1 BOARD, COMPLETE | | | | C051 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| (ER43M61/M90/M91, ER53M61/M90/M91) | | | | C052 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| ***** | | | | C054 | 1-126-933-11 | ELECT 100UF | 20.00% 16V |
| * A-1300-348-A M1 BOARD, COMPLETE | | | | C055 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| (ER43M31) | | | | C056 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| ***** | | | | C059 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| * A-1300-3351-A M1 BOARD, COMPLETE | | | | C060 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| (ER53M61/M90/M91, ER53M61/M90/M91) | | | | C061 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| ***** | | | | C062 | 1-163-259-91 | CERAMIC CHIP 220PF | 5.00% 50V |
| * A-1300-3352-A M1 BOARD, COMPLETE | | | | <CONNECTOR> | | | |
| (ER53M31) | | | | CN001 | 1-695-302-11 | CONNECTOR, BOARD TO BOARD 50P | |
| ***** | | | | <DIODE> | | | |
| <CAPACITOR> | | | | D003 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C001 | 1-126-960-11 | ELECT 1UF | 20.00% 50V | D004 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C002 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | D007 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C003 | 1-163-037-11 | CERAMIC CHIP 0.022UF | 10.00% 50V | D008 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C004 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | D009 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C007 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | D015 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C010 | 1-126-933-11 | ELECT 100UF | 20.00% 16V | D017 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| C013 | 1-163-989-11 | CERAMIC CHIP 0.033UF | 10.00% 25V | | | | |
| C014 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | | | | |
| C015 | 1-163-239-11 | CERAMIC CHIP 33PF | 5.00% 50V | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------------|--------|---------|--------------|-----------------------------|-----------------|
| | | <FERRITBEAD> | | | | | |
| FB001 | 1-414-233-22 | FERRITE | 0UH | Q019 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| FB002 | 1-414-233-22 | FERRITE | 0UH | Q020 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| FB003 | 1-414-233-22 | FERRITE | 0UH | Q021 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| FB004 | 1-414-233-22 | FERRITE | 0UH | Q022 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FB005 | 1-414-233-22 | FERRITE | 0UH | | | | |
| | | | | Q023 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| FB006 | 1-414-233-22 | FERRITE | 0UH | | | | |
| FB007 | 1-414-233-22 | FERRITE | 0UH | | | <RESISTOR> | |
| FB008 | 1-414-233-22 | FERRITE | 0UH | R001 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| FB009 | 1-414-233-22 | FERRITE | 0UH | R002 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| FB010 | 1-414-233-22 | FERRITE | 0UH | R003 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R004 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FB011 | 1-414-233-22 | FERRITE | 0UH | R005 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FB012 | 1-414-233-22 | FERRITE | 0UH | | | | |
| | | <FILTER> | | R006 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FL001 | 1-236-071-11 | ENCAPSULATED COMPONENT | | R007 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R008 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R009 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R011 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | <IC> | | R012 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC001 | 8-759-042-02 | IC S-80743AL-A7-S | | R013 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC002 | 8-752-922-07 | IC CXP750096-040Q-TL | | R015 | 1-216-295-91 | SHORT | 0 |
| IC003 | 8-759-652-13 | IC SDA5254-2B006 | | R021 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC004 | 8-759-675-64 | IC M24C08-MN6T(A) | | R022 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC005 | 8-759-671-94 | IC MC74HC4053AFEL | | | | | |
| | | | | R023 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC006 | 8-759-575-71 | IC M24C04-WMN6T | | R024 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| IC007 | 8-759-042-02 | IC S-80743AL-A7-S | | R026 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC008 | 8-759-242-68 | IC TC7W32F | | R027 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| IC009 | 8-759-242-78 | IC TC7W02F | | R030 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC010 | 8-759-242-74 | IC TC7W04F | | | | | |
| | | <CHIP CONDUCTOR> | | R031 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| JR001 | 1-216-295-91 | SHORT | 0 | R032 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| JR002 | 1-216-295-91 | SHORT | 0 | R033 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | R034 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | R035 | 1-208-792-11 | METAL CHIP | 2.7K 0.5% 1/10W |
| | | <COIL> | | | | | |
| L002 | 1-408-591-11 | INDUCTOR | 1UH | R036 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| L003 | 1-408-603-31 | INDUCTOR | 10UH | R037 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| L004 | 1-408-603-31 | INDUCTOR | 10UH | R038 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| L005 | 1-408-602-31 | INDUCTOR | 8.2UH | R039 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| L006 | 1-408-603-31 | INDUCTOR | 10UH | R040 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| | | <TRANSISTOR> | | R042 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| Q004 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R043 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| Q005 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R044 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W |
| Q006 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R047 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| Q008 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R048 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| Q009 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | | |
| | | | | R049 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| Q010 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R050 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| Q014 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R051 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| Q015 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R052 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| Q016 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R053 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W |
| Q017 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | | |
| | | | | R054 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| Q018 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R055 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R058 | 1-216-685-11 | METAL CHIP | 27K 0.5% 1/10W |
| | | | | R059 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R060 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W |
| | | | | | | | |
| | | | | R061 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R063 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R064 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|----------------|---------|--------------|-------------|---------------|
| R065 | 1-208-758-11 | METAL CHIP | 100 0.5% 1/10W | R138 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R067 | 1-208-758-11 | METAL CHIP | 100 0.5% 1/10W | | | | |
| R068 | 1-216-295-91 | SHORT | 0 | R139 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R069 | 1-208-758-11 | METAL CHIP | 100 0.5% 1/10W | R140 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R070 | 1-216-295-91 | SHORT | 0 | R141 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R071 | 1-216-295-91 | SHORT | 0 | R142 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R072 | 1-216-295-91 | SHORT | 0 | R143 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| | | | | R144 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R073 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R078 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R079 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R080 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | | | | |
| R081 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | | | | |
| | | | | | | | |
| R082 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | | | | |
| R083 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R085 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W | | | | |
| R086 | 1-216-053-00 | RES-CHIP | 1.5K 5% 1/10W | | | | |
| R088 | 1-216-063-91 | RES-CHIP | 3.9K 5% 1/10W | | | | |
| | | | | | | | |
| R089 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R090 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | | | | |
| R091 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | | | | |
| R092 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R093 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| | | | | | | | |
| R094 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R095 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | | | | |
| R099 | 1-216-295-91 | SHORT | 0 | | | | |
| R100 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W | | | | |
| R101 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W | | | | |
| | | | | | | | |
| R102 | 1-216-295-91 | SHORT | 0 | | | | |
| R103 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W | | | | |
| R104 | 1-216-295-91 | SHORT | 0 | | | | |
| R105 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R106 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| | | | | | | | |
| R107 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R108 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R109 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R110 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R111 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| | | | | | | | |
| R112 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R113 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R114 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R119 | 1-216-295-91 | SHORT | 0 | | | | |
| R120 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| | | | | | | | |
| R121 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | | | | |
| R123 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | | | | |
| R124 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R125 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R126 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| | | | | | | | |
| R127 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R128 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R129 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R131 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | | | | |
| R132 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| | | | | | | | |
| R133 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R134 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | | | | |
| R135 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R137 | 1-216-295-91 | SHORT | 0 | | | | |

<CRYSTAL>

X001 1-567-928-11 VIBLATOR, CERAMIC (20MHz)
X002 1-781-685-21 VIBRATOR, CRYSTAL (6MHz)

* A-1300-349-A A1 BOARD, COMPLETE
(ER43M90, ER53M90)

* A-1300-350-A A1 BOARD, COMPLETE
(ER43M31/M61/M91, ER53M31/M61/M91)

* 1-555-110-00 CABLE, PIN
4-382-854-11 SCREW (M3X10), P, SW (+)
4-389-026-51 SHEET, BN

<CAPACITOR>

C1101 1-126-935-11 ELECT 470UF 20.00% 16V
C1102 1-126-964-11 ELECT 10UF 20.00% 50V
C1103 1-126-960-11 ELECT 1UF 20.00% 50V
C1104 1-126-960-11 ELECT 1UF 20.00% 50V
C1105 1-126-041-11 ELECT 2200UF 20.00% 35V

C1106 1-130-495-00 MYLAR 0.1UF 5.00% 50V
C1107 1-130-495-00 MYLAR 0.1UF 5.00% 50V
C1108 1-126-947-11 ELECT 47UF 20.00% 16V
C1109 1-126-947-11 ELECT 47UF 20.00% 16V
C1110 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V

C1111 1-126-041-11 ELECT 2200UF 20.00% 35V
C1114 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V
C1117 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V
C1201 1-107-725-11 CERAMIC CHIP 0.1UF 10.00% 16V
C1202 1-126-934-11 ELECT 220UF 20.00% 16V

C1203 1-126-965-91 ELECT 22UF 20.00% 50V
C1204 1-115-419-11 CERAMIC CHIP 3300PF 5.00% 25V
C1205 1-115-419-11 CERAMIC CHIP 3300PF 5.00% 25V
C1206 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V
C1208 1-164-489-11 CERAMIC CHIP 0.22UF 10.00% 16V

C1209 1-164-489-11 CERAMIC CHIP 0.22UF 10.00% 16V
C1210 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V
C1211 1-164-489-11 CERAMIC CHIP 0.22UF 10.00% 16V
C1213 1-164-489-11 CERAMIC CHIP 0.22UF 10.00% 16V
C1215 1-164-505-11 CERAMIC CHIP 2.2UF 16V

C1217 1-164-505-11 CERAMIC CHIP 2.2UF 16V
C1219 1-163-251-11 CERAMIC CHIP 100PF 5.00% 50V
C1220 1-107-715-11 ELECT 22UF 20.00% 16V
C1221 1-137-150-11 MYLAR 0.01UF 5.00% 50V

A1

– 154 –

A1

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------------|--------|---------|--------------|-----------------------------|--------|
| | | <IC> | | L1310 | 1-414-856-11 | INDUCTOR 10UH | |
| IC1101 | 8-759-190-89 | IC TDA7265 | | L1311 | 1-414-856-11 | INDUCTOR 10UH | |
| IC1201 | 8-759-273-12 | IC TDA7315D013TR | | L1312 | 1-414-856-11 | INDUCTOR 10UH | |
| IC1202 | 8-759-576-76 | IC TDA2822D013TR | | L1313 | 1-414-856-11 | INDUCTOR 10UH | |
| IC1301 | 8-759-042-02 | IC S-80743AL-A7-S | | | | | |
| IC1601 | 8-759-069-28 | IC PQ05RF11 | | L1314 | 1-414-856-11 | INDUCTOR 10UH | |
| | | | | | | | |
| IC1602 | 8-759-653-07 | IC PQ09RD21 | | | | <TRANSISTOR> | |
| IC1603 | 8-759-520-49 | IC PQ30RV21 | | Q1101 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| IC1604 | 8-759-644-37 | IC PQ5EV3 | | Q1102 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| IC1605 | 8-759-069-28 | IC PQ05RF11 | | Q1103 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | | | Q1104 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | | | Q1105 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | <CHIP CONDUCTOR> | | | | | |
| JR1001 | 1-216-295-91 | SHORT 0 | | Q1106 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1002 | 1-216-295-91 | SHORT 0 | | Q1201 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1003 | 1-216-295-91 | SHORT 0 | | Q1202 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1004 | 1-216-295-91 | SHORT 0 | | Q1203 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1005 | 1-216-295-91 | SHORT 0 | | Q1204 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | | | | | | |
| JR1006 | 1-216-295-91 | SHORT 0 | | Q1205 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1007 | 1-216-295-91 | SHORT 0 | | Q1206 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1008 | 1-216-295-91 | SHORT 0 | | Q1207 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1009 | 1-216-295-91 | SHORT 0 | | Q1208 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1010 | 1-216-295-91 | SHORT 0 | | Q1308 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | | | | | | | |
| JR1011 | 1-216-295-91 | SHORT 0 | | Q1309 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1013 | 1-216-295-91 | SHORT 0 | | Q1310 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1014 | 1-216-295-91 | SHORT 0 | | Q1311 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1015 | 1-216-295-91 | SHORT 0 | | Q1312 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1016 | 1-216-295-91 | SHORT 0 | | Q1401 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | | | | | | | |
| JR1017 | 1-216-295-91 | SHORT 0 | | Q1402 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR1018 | 1-216-295-91 | SHORT 0 | | Q1409 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR1019 | 1-216-295-91 | SHORT 0 | | | | | |
| JR1020 | 1-216-295-91 | SHORT 0 | | | | <RESISTOR> | |
| JR1023 | 1-216-295-91 | SHORT 0 | | | | | |
| | | | | R1101 | 1-216-049-11 | RES-CHIP 1K 5% 1/10W | |
| JR1028 | 1-216-295-91 | SHORT 0 | | R1102 | 1-216-097-11 | RES-CHIP 100K 5% 1/10W | |
| JR1031 | 1-216-295-91 | SHORT 0 | | R1103 | 1-249-377-11 | CARBON 0.47 5% 1/4W | |
| JR1032 | 1-216-295-91 | SHORT 0 | | R1104 | 1-216-089-91 | RES-CHIP 47K 5% 1/10W | |
| JR1033 | 1-216-295-91 | SHORT 0 | | R1105 | 1-216-113-00 | RES-CHIP 470K 5% 1/10W | |
| JR1034 | 1-216-295-91 | SHORT 0 | | | | | |
| | | | | R1106 | 1-216-089-91 | RES-CHIP 47K 5% 1/10W | |
| JR1035 | 1-216-295-91 | SHORT 0 | | R1107 | 1-216-057-00 | RES-CHIP 2.2K 5% 1/10W | |
| JR1201 | 1-216-295-91 | SHORT 0 | | R1108 | 1-216-073-91 | RES-CHIP 10K 5% 1/10W | |
| JR1202 | 1-216-295-91 | SHORT 0 | | R1109 | 1-216-041-00 | RES-CHIP 470 5% 1/10W | |
| JR1303 | 1-216-295-91 | SHORT 0 | | R1110 | 1-216-073-91 | RES-CHIP 10K 5% 1/10W | |
| JR1305 | 1-216-295-91 | SHORT 0 | | | | | |
| | | | | R1111 | 1-216-041-00 | RES-CHIP 470 5% 1/10W | |
| JR1306 | 1-216-295-91 | SHORT 0 | | R1112 | 1-216-295-91 | SHORT 0 | |
| JR1601 | 1-216-295-91 | SHORT 0 | | R1113 | 1-216-061-91 | RES-CHIP 3.3K 5% 1/10W | |
| JR1603 | 1-216-295-91 | SHORT 0 | | R1114 | 1-216-089-91 | RES-CHIP 47K 5% 1/10W | |
| JR1604 | 1-414-193-41 | INDUCTOR 220UH | | R1115 | 1-216-089-91 | RES-CHIP 47K 5% 1/10W | |
| | | | | | | | |
| | | | | R1116 | 1-216-295-91 | SHORT 0 | |
| | | <COIL> | | R1117 | 1-216-061-91 | RES-CHIP 3.3K 5% 1/10W | |
| L1304 | 1-414-856-11 | INDUCTOR 10UH | | R1118 | 1-216-079-00 | RES-CHIP 18K 5% 1/10W | |
| L1305 | 1-414-856-11 | INDUCTOR 10UH | | R1119 | 1-216-079-00 | RES-CHIP 18K 5% 1/10W | |
| L1306 | 1-414-856-11 | INDUCTOR 10UH | | R1120 | 1-216-043-91 | RES-CHIP 560 5% 1/10W | |
| L1307 | 1-414-856-11 | INDUCTOR 10UH | | | | | |
| L1308 | 1-414-856-11 | INDUCTOR 10UH | | R1121 | 1-216-043-91 | RES-CHIP 560 5% 1/10W | |
| | | | | R1122 | 1-216-357-00 | METAL OXIDE 4.7 5% 1W | |
| L1309 | 1-414-856-11 | INDUCTOR 10UH | | R1123 | 1-249-381-11 | CARBON 1 5% 1/4W | |

A1 BC4

| REF.NO. | PART NO. | DESCRIPTION | REMARK | | | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------|--------------|-------------|--------|----|-------|---------|--------------|----------------------|--------|------|-------|
| R1124 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | R1348 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R1126 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | | | | | | |
| R1127 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R1349 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R1128 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | R1350 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R1130 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | R1351 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W |
| R1201 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1352 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R1202 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1402 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W |
| | | | | | | | | | | | |
| R1203 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1403 | 1-208-782-11 | METAL CHIP | 1K | 0.5% | 1/10W |
| R1204 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1404 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| R1206 | 1-216-067-00 | RES-CHIP | 5.6K | 5% | 1/10W | R1405 | 1-208-826-11 | METAL CHIP | 68K | 0.5% | 1/10W |
| R1207 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | R1406 | 1-208-822-11 | METAL CHIP | 47K | 0.5% | 1/10W |
| R1209 | 1-216-067-00 | RES-CHIP | 5.6K | 5% | 1/10W | R1407 | 1-208-817-11 | METAL CHIP | 30K | 0.5% | 1/10W |
| | | | | | | | | | | | |
| R1210 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | R1408 | 1-208-798-11 | METAL CHIP | 4.7K | 0.5% | 1/10W |
| R1211 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | R1409 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W |
| R1212 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | R1436 | 1-216-295-91 | SHORT | 0 | | |
| R1213 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | R1437 | 1-216-295-91 | SHORT | 0 | | |
| R1214 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R1438 | 1-216-295-91 | SHORT | 0 | | |
| | | | | | | | | | | | |
| R1215 | 1-216-067-00 | RES-CHIP | 5.6K | 5% | 1/10W | R1439 | 1-216-295-91 | SHORT | 0 | | |
| R1216 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W | R1440 | 1-216-295-91 | SHORT | 0 | | |
| R1217 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W | R1441 | 1-216-295-91 | SHORT | 0 | | |
| R1218 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | R1452 | 1-216-295-91 | SHORT | 0 | | |
| R1219 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R1453 | 1-216-295-91 | SHORT | 0 | | |
| | | | | | | | | | | | |
| R1220 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | R1460 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W |
| R1221 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R1461 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| R1222 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | R1462 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| R1223 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | R1469 | 1-535-143-71 | LEAD, JUMPER (7.5MM) | | | |
| R1224 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | R1601 | 1-216-295-91 | SHORT | 0 | | |
| | | | | | | | | | | | |
| R1225 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1608 | 1-208-778-11 | METAL CHIP | 680 | 0.5% | 1/10W |
| R1226 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | R1610 | 1-216-641-11 | METAL CHIP | 390 | 0.5% | 1/10W |
| R1228 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | R1611 | 1-216-641-11 | METAL CHIP | 390 | 0.5% | 1/10W |
| R1229 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | R1613 | 1-216-641-11 | METAL CHIP | 390 | 0.5% | 1/10W |
| R1230 | 1-216-308-00 | RES-CHIP | 4.7 | 5% | 1/10W | | | | | | |
| | | | | | | | | | | | |
| R1231 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| R1232 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| R1233 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | RV2001 | 1-223-271-21 | RES, ADJ, CERMET 220 | | | |
| R1234 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | RY1101 | 1-755-028-11 | RELAY | | | |
| R1235 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | RY1102 | 1-755-028-11 | RELAY | | | |
| | | | | | | | | | | | |
| R1236 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W | | | | | | |
| R1237 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | | | | | | |
| R1249 | 1-216-308-00 | RES-CHIP | 4.7 | 5% | 1/10W | | | | | | |
| R1329 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | | | | | | |
| R1330 | 1-216-057-00 | RES-CHIP | 2.2K | 5% | 1/10W | | | | | | |
| | | | | | | | | | | | |
| R1331 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | | | | | | |
| R1332 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W | | | | | | |
| R1333 | 1-216-039-00 | RES-CHIP | 390 | 5% | 1/10W | | | | | | |
| R1334 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
| R1335 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | | | | | | |
| | | | | | | | | | | | |
| R1336 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
| R1337 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| R1338 | 1-216-295-91 | SHORT | 0 | | | | | | | | |
| R1341 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
| R1342 | 1-216-295-91 | SHORT | 0 | | | | | | | | |
| | | | | | | | | | | | |
| R1344 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W | | | | | | |
| R1345 | 1-216-039-00 | RES-CHIP | 390 | 5% | 1/10W | | | | | | |
| R1346 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | | | | | | |
| R1347 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|---------------------|-------------|---|--------------|-------------------------|--------|
| C2018 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | <CONNECTOR> | | | |
| C2021 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | CN2001 * 1-774-184-11 PIN, CONNECTOR (PC BOARD) 15P | | | |
| C2024 | 1-216-295-91 | SHORT 0 | | <FERRITBEAD> | | | |
| C2029 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2002 | 1-414-234-22 | FERRITE 0UH | |
| C2030 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2008 | 1-414-234-22 | FERRITE 0UH | |
| C2031 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2009 | 1-414-234-22 | FERRITE 0UH | |
| C2032 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2010 | 1-414-234-22 | FERRITE 0UH | |
| C2033 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2011 | 1-414-234-22 | FERRITE 0UH | |
| C2034 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2012 | 1-414-234-22 | FERRITE 0UH | |
| C2035 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2014 | 1-414-234-22 | FERRITE 0UH | |
| C2036 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2015 | 1-414-234-22 | FERRITE 0UH | |
| C2037 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | FB2016 | 1-414-234-22 | FERRITE 0UH | |
| C2038 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FB2017 | 1-414-234-22 | FERRITE 0UH | |
| C2039 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | <FILTER> | | | |
| C2040 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FL2001 | 1-239-848-11 | FILTER, LOW PASS | |
| C2041 | 1-126-924-11 | ELECT 330UF | 20.00% 6.3V | FL2002 | 1-239-848-11 | FILTER, LOW PASS | |
| C2042 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | FL2003 | 1-239-848-11 | FILTER, LOW PASS | |
| C2044 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | FL2004 | 1-239-848-11 | FILTER, LOW PASS | |
| C2045 | 1-163-106-00 | CERAMIC CHIP 36PF | 5.00% 50V | FL2005 | 1-233-736-21 | FILTER, EMI | |
| C2046 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | FL2006 | 1-233-736-21 | FILTER, EMI | |
| C2047 | 1-164-505-11 | CERAMIC CHIP 2.2UF | 16V | FL2007 | 1-233-736-21 | FILTER, EMI | |
| C2048 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | <IC> | | | |
| C2049 | 1-126-960-11 | ELECT 1UF | 20.00% 50V | IC2003 | 6-700-188-01 | IC IS41C16256-35K | |
| C2050 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | IC2004 | 8-759-594-44 | IC UPD64082GF-3BA | |
| C2051 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | IC2005 | 8-759-431-14 | IC PQ3TZ53U | |
| C2052 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V | <COIL> | | | |
| C2053 | 1-109-889-11 | ELECT 1UF | 20.00% 50V | L2001 | 1-410-200-31 | INDUCTOR 4.7UH | |
| C2054 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | L2004 | 1-412-058-11 | INDUCTOR 10UH | |
| C2055 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | L2005 | 1-412-058-11 | INDUCTOR 10UH | |
| C2056 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | L2006 | 1-412-058-11 | INDUCTOR 10UH | |
| C2057 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | L2007 | 1-412-058-11 | INDUCTOR 10UH | |
| C2058 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | L2008 | 1-412-058-11 | INDUCTOR 10UH | |
| C2059 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | <TRANSISTOR> | | | |
| C2060 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | Q2002 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| C2061 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | Q2003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| C2062 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | Q2004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| C2063 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | Q2005 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2064 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | Q2006 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2065 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | Q2007 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2066 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | Q2008 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2067 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | Q2009 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2068 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | Q2010 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2069 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | Q2011 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2070 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | Q2012 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| C2071 | 1-165-319-11 | CERAMIC CHIP 0.1UF | 50V | Q2013 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| C2072 | 1-163-237-11 | CERAMIC CHIP 27PF | 5.00% 50V | Q2014 | 8-729-422-33 | TRANSISTOR 2SD601A-Q-TX | |
| C2074 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2075 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | | |
| C2078 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | | | | |
| C2079 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | | | | |
| C2080 | 1-163-031-91 | CERAMIC CHIP 0.01UF | 50V | | | | |
| C2095 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | | | | |
| C2096 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | | | | |
| C2097 | 1-163-231-11 | CERAMIC CHIP 15PF | 5.00% 50V | | | | |

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[illegible]



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|------------------------------------|--------------|------------------------------|---------------|
| R4321 | 1-216-105-91 | RES-CHIP | 220K 5% 1/10W | R4406 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W |
| R4322 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R4407 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R4323 | 1-216-091-00 | RES-CHIP | 56K 5% 1/10W | R4408 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R4324 | 1-208-830-11 | METAL CHIP | 100K 0.5% 1/10W | R4504 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R4325 | 1-216-093-91 | RES-CHIP | 68K 5% 1/10W | R4514 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W |
| R4331 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W | R4515 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W |
| R4332 | 1-216-295-91 | SHORT | 0 | R4516 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R4334 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4517 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R4335 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4518 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R4336 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4519 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R4337 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4520 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W |
| R4339 | 1-249-409-11 | CARBON | 220 5% 1/4W | R4521 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W |
| R4340 | 1-216-111-00 | RES-CHIP | 390K 5% 1/10W | R4522 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R4341 | 1-216-295-91 | SHORT | 0 | R4523 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R4343 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4524 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R4344 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R4601 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R4345 | 1-216-075-00 | RES-CHIP | 12K 5% 1/10W | R4602 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R4346 | 1-208-812-11 | METAL CHIP | 18K 0.5% 1/10W | R4603 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R4347 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | <TRANSFORMER> | | | |
| R4348 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | T4301 | 1-469-893-11 | INDUCTOR (EMI REMOVE FILTER) | |
| R4349 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | <CRYSTAL> | | | |
| R4350 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | X4300 | 1-767-127-11 | VIBRATOR, CERAMIC (503.5kHz) | |
| R4352 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | ***** | | | |
| R4354 | 1-208-806-11 | METAL CHIP | 10K 0.5% 1/10W | * A-1385-192-A J1 BOARD, COMPLETE | | | |
| R4355 | 1-216-295-91 | SHORT | 0 | (ER43M91, ER53M91) | | | |
| R4357 | 1-208-814-91 | METAL CHIP | 22K 0.5% 1/10W | ***** | | | |
| R4358 | 1-208-804-11 | METAL CHIP | 8.2K 0.5% 1/10W | * A-1395-982-A J1 BOARD, COMPLETE | | | |
| R4359 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | (ER43M31/M61/M90, ER53M31/M61/M90) | | | |
| R4360 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W | ***** | | | |
| R4361 | 1-216-133-91 | RES-CHIP | 3.3M 5% 1/10W | <CAPACITOR> | | | |
| R4363 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C8301 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4365 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8302 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4366 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8303 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4367 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8304 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4370 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C8305 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4372 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C8306 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4375 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C8307 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4377 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | C8308 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4380 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C8309 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4382 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | C8310 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4384 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C8311 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| R4385 | 1-216-129-00 | RES-CHIP | 2.2M 5% 1/10W | C8312 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| R4387 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8313 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| R4388 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8314 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| R4389 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | C8315 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4393 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C8316 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V |
| R4395 | 1-216-295-91 | SHORT | 0 | C8317 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| R4396 | 1-216-295-91 | SHORT | 0 | C8318 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| R4397 | 1-216-295-91 | SHORT | 0 | C8319 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| R4400 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | C8320 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |
| R4401 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W | | | | |
| R4402 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R4403 | 1-216-298-00 | RES-CHIP | 2.2 5% 1/10W | | | | |
| R4404 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | | | | |
| R4405 | 1-216-061-91 | RES-CHIP | 3.3K 5% 1/10W | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|----------------------|------------|---------|--------------|-----------------------|------------|
| C8321 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V | C8391 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8322 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8392 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8323 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8393 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8324 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V | C8396 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V |
| C8325 | 1-126-935-11 | ELECT 470UF | 20.00% 16V | C8397 | 1-163-217-11 | CERAMIC CHIP 1PF | 0.25PF 50V |
| C8326 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | C8399 | 1-126-961-11 | ELECT 2.2UF | 20.00% 50V |
| C8327 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8401 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C8328 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8402 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| C8329 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8403 | 1-163-037-11 | CERAMIC CHIP 0.022UF | 10.00% 50V |
| C8330 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8406 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8331 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8407 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8332 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | C8408 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C8333 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V | C8410 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8334 | 1-163-249-11 | CERAMIC CHIP 82PF | 5.00% 50V | C8411 | 1-163-217-11 | CERAMIC CHIP 1PF | 0.25PF 50V |
| C8336 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8412 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8337 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8414 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8338 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8415 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V |
| C8339 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8416 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8340 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | C8417 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.50PF 50V |
| C8341 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | C8418 | 1-126-964-11 | ELECT 10UF | 20.00% 50V |
| C8342 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | C8419 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8343 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8424 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C8344 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8425 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C8345 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8437 | 1-126-963-11 | ELECT 4.7UF | 20.00% 50V |
| C8346 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8438 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8347 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V | C8439 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8348 | 1-163-133-00 | CERAMIC CHIP 470PF | 5.00% 50V | C8440 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8349 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8446 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8350 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8447 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8351 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8448 | 1-164-690-91 | CERAMIC CHIP 0.0022UF | 5.00% 50V |
| C8352 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8450 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V |
| C8354 | 1-107-823-11 | CERAMIC CHIP 0.47UF | 10.00% 16V | C8451 | 1-164-505-11 | CERAMIC CHIP 2.2UF | 16V |
| C8355 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8453 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8356 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8454 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8357 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8455 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8358 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8464 | 1-115-340-11 | CERAMIC CHIP 0.22UF | 10.00% 25V |
| C8359 | 1-163-037-11 | CERAMIC CHIP 0.022UF | 10.00% 50V | C8465 | 1-115-340-11 | CERAMIC CHIP 0.22UF | 10.00% 25V |
| C8360 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8466 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8361 | 1-126-961-11 | ELECT 2.2UF | 20.00% 50V | C8467 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8362 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8468 | 1-115-340-11 | CERAMIC CHIP 0.22UF | 10.00% 25V |
| C8363 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8469 | 1-115-340-11 | CERAMIC CHIP 0.22UF | 10.00% 25V |
| C8366 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8474 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8367 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8477 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| C8368 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8478 | 1-163-243-11 | CERAMIC CHIP 47PF | 5.00% 50V |
| C8369 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | C8479 | 1-163-239-11 | CERAMIC CHIP 33PF | 5.00% 50V |
| C8370 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8481 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8371 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8482 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8372 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8483 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| C8373 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.50PF 50V | C8485 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8374 | 1-164-346-11 | CERAMIC CHIP 1UF | 16V | C8492 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| C8375 | 1-126-964-11 | ELECT 10UF | 20.00% 50V | C8501 | 1-163-247-91 | CERAMIC CHIP 68PF | 5.00% 50V |
| C8376 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | C8601 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |
| C8381 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8602 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |
| C8386 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | C8603 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |
| C8390 | 1-126-963-11 | ELECT 4.7UF | 20.00% 50V | C8604 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |
| | | | | C8605 | 1-117-720-11 | CERAMIC CHIP 4.7UF | 10V |

– 162 –



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|--------------------------------|--------|------------|--------------|-----------------------------|--------|
| J8901 | 1-565-838-11 | JACK BLOCK, PIN 2P (AUDIO OUT) | | Q8421 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | <COIL> | | | Q8422 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L8101 | 1-402-711-11 | INDUCTOR 0UH | | Q8423 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L8102 | 1-402-711-11 | INDUCTOR 0UH | | Q8424 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L8304 | 1-412-029-11 | INDUCTOR 10UH | | Q8425 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L8305 | 1-414-196-41 | INDUCTOR 47UH | | | | | |
| L8306 | 1-414-196-41 | INDUCTOR 47UH | | Q8426 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L8307 | 1-414-196-41 | INDUCTOR 47UH | | Q8601 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L8501 | 1-412-029-11 | INDUCTOR 10UH | | Q8602 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L8801 | 1-412-029-11 | INDUCTOR 10UH | | Q8603 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| L8802 | 1-412-029-11 | INDUCTOR 10UH | | Q8604 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | <TRANSISTOR> | | | Q8605 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8301 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | Q8606 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8302 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8607 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8303 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8801 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8304 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8802 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| Q8306 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | | |
| Q8307 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | Q8803 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| Q8308 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8804 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| Q8309 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8805 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| Q8316 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8807 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8317 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | Q8808 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | | | | | | | |
| Q8318 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8809 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| Q8319 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8810 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8321 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | Q8811 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8322 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | | |
| Q8323 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | <RESISTOR> | | | |
| | | | | R8301 | 1-216-041-00 | RES-CHIP 470 5% 1/10W | |
| Q8324 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8302 | 1-216-041-00 | RES-CHIP 470 5% 1/10W | |
| Q8326 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8303 | 1-216-021-00 | RES-CHIP 68 5% 1/10W | |
| Q8327 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R8304 | 1-216-057-00 | RES-CHIP 2.2K 5% 1/10W | |
| Q8328 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R8305 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8332 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | | |
| | | | | R8306 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8338 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8307 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8340 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8308 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8401 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8309 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8402 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8310 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8405 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | | |
| | | | | R8311 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8406 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R8312 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8407 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R8313 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8408 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8314 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8409 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R8315 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8410 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | | |
| | | | | R8316 | 1-216-113-00 | RES-CHIP 470K 5% 1/10W | |
| Q8411 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R8317 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8412 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R8318 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8413 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R8319 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8414 | 1-801-806-11 | TRANSISTOR DTC144EKA | | R8320 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8415 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | | |
| | | | | R8321 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| Q8416 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8322 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |
| Q8417 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8323 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | |
| Q8418 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R8324 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | |
| Q8419 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | R8325 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | |
| Q8420 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | | |
| | | | | R8326 | 1-216-105-91 | RES-CHIP 220K 5% 1/10W | |
| | | | | R8327 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | |
| | | | | R8328 | 1-216-113-00 | RES-CHIP 470K 5% 1/10W | |
| | | | | R8329 | 1-216-113-00 | RES-CHIP 470K 5% 1/10W | |
| | | | | R8330 | 1-216-022-00 | RES-CHIP 75 5% 1/10W | |

J1

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|----------------|---------|--------------|-------------|-----------------|
| R8331 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8392 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8332 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8393 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8333 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8394 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8334 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8395 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8335 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8396 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8336 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8397 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8337 | 1-216-022-00 | RES-CHIP | 75 5% 1/10W | R8398 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8338 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8399 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8339 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8400 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8340 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8401 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8341 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8402 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W |
| R8342 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8403 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W |
| R8343 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8404 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8344 | 1-216-022-00 | RES-CHIP | 75 5% 1/10W | R8405 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8345 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8406 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8346 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8407 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8347 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8408 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8348 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R8409 | 1-216-295-91 | SHORT | 0 |
| R8349 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8410 | 1-216-295-91 | SHORT | 0 |
| R8350 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8411 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W |
| R8351 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8412 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8352 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R8413 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8353 | 1-216-295-91 | SHORT | 0 | R8414 | 1-208-796-11 | METAL CHIP | 3.9K 0.5% 1/10W |
| R8354 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8417 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8355 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8418 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8356 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8419 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8357 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8420 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8362 | 1-216-642-11 | METAL CHIP | 430 0.5% 1/10W | R8421 | 1-216-295-91 | SHORT | 0 |
| R8363 | 1-208-774-11 | METAL CHIP | 470 0.5% 1/10W | R8422 | 1-216-295-91 | SHORT | 0 |
| R8364 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8424 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W |
| R8365 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W | R8425 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8366 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W | R8426 | 1-208-796-11 | METAL CHIP | 3.9K 0.5% 1/10W |
| R8367 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8427 | 1-216-295-91 | SHORT | 0 |
| R8368 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8428 | 1-216-295-91 | SHORT | 0 |
| R8369 | 1-216-295-91 | SHORT | 0 | R8431 | 1-216-295-91 | SHORT | 0 |
| R8370 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8432 | 1-216-295-91 | SHORT | 0 |
| R8373 | 1-216-039-00 | RES-CHIP | 390 5% 1/10W | R8436 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8374 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8437 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R8375 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8438 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R8376 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8439 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R8377 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8440 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R8378 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R8441 | 1-208-291-11 | RES-CHIP | 4.7M 5% 1/10W |
| R8379 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R8443 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8380 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8444 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8381 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8445 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| R8382 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R8446 | 1-216-295-91 | SHORT | 0 |
| R8383 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R8447 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8384 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8448 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8385 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8449 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8386 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8451 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8387 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8452 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8388 | 1-216-031-00 | RES-CHIP | 180 5% 1/10W | R8453 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8389 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R8454 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8390 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8455 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R8391 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R8456 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| | | | | R8458 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|----------------|---------|--------------|-------------|-----------------|
| R8461 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8563 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W |
| R8464 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8564 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8465 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R8565 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W |
| R8466 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | | | | |
| R8467 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | R8566 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8468 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | R8568 | 1-216-295-91 | SHORT | 0 |
| R8469 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8571 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8470 | 1-216-069-00 | RES-CHIP | 6.8K 5% 1/10W | R8572 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8471 | 1-216-069-00 | RES-CHIP | 6.8K 5% 1/10W | R8573 | 1-208-776-11 | METAL CHIP | 560 0.5% 1/10W |
| | | | | | | | |
| R8472 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R8574 | 1-208-800-11 | METAL CHIP | 5.6K 0.5% 1/10W |
| R8473 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8575 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8478 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W | R8577 | 1-216-295-91 | SHORT | 0 |
| R8479 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | R8580 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8480 | 1-216-073-91 | RES-CHIP | 10K 5% 1/10W | R8581 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | | | | |
| R8481 | 1-216-095-00 | RES-CHIP | 82K 5% 1/10W | R8582 | 1-208-776-11 | METAL CHIP | 560 0.5% 1/10W |
| R8482 | 1-216-073-91 | RES-CHIP | 47K 5% 1/10W | R8583 | 1-208-800-11 | METAL CHIP | 5.6K 0.5% 1/10W |
| R8484 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W | R8584 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8485 | 1-216-013-00 | RES-CHIP | 33 5% 1/10W | R8586 | 1-216-295-91 | SHORT | 0 |
| R8487 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W | R8589 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| R8488 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8590 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8490 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8591 | 1-208-776-11 | METAL CHIP | 560 0.5% 1/10W |
| R8494 | 1-216-295-91 | SHORT | 0 | R8592 | 1-208-800-11 | METAL CHIP | 5.6K 0.5% 1/10W |
| R8496 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8593 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8502 | 1-216-295-91 | SHORT | 0 | R8595 | 1-216-295-91 | SHORT | 0 |
| | | | | | | | |
| R8503 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R8596 | 1-216-295-91 | SHORT | 0 |
| R8504 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8601 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8510 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8602 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8514 | 1-216-295-91 | SHORT | 0 | R8603 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8515 | 1-216-295-91 | SHORT | 0 | R8604 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | | | | |
| R8519 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8605 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8523 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8606 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8525 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8607 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8526 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W | R8608 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8529 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8609 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| | | | | | | | |
| R8530 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8610 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8531 | 1-216-295-91 | SHORT | 0 | R8611 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8535 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8612 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8536 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8613 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| R8537 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8614 | 1-216-031-00 | RES-CHIP | 180 5% 1/10W |
| | | | | | | | |
| R8539 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8615 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8542 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8616 | 1-216-295-91 | SHORT | 0 |
| R8543 | 1-216-039-00 | RES-CHIP | 390 5% 1/10W | R8617 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8544 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W | R8618 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8545 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8619 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | | | | |
| R8546 | 1-216-295-91 | SHORT | 0 | R8620 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8547 | 1-216-295-91 | SHORT | 0 | R8621 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8548 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8622 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8552 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8623 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8554 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8624 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| | | | | | | | |
| R8555 | 1-208-774-11 | METAL CHIP | 470 0.5% 1/10W | R8625 | 1-216-089-91 | RES-CHIP | 47K 5% 1/10W |
| R8556 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R8626 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R8557 | 1-208-768-11 | METAL CHIP | 270 0.5% 1/10W | R8627 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R8558 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R8628 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R8559 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R8629 | 1-216-295-91 | SHORT | 0 |
| | | | | | | | |
| R8561 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R8630 | 1-208-765-11 | METAL CHIP | 200 0.5% 1/10W |
| R8562 | 1-216-043-91 | RES-CHIP | 560 5% 1/10W | R8631 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| | | | | R8632 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |

J1 ZG

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---------|--------------|-----------------------------|------|------|--------|---------|---------------|---------------------------------------|--------|------|--------|
| R8633 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | | | | |
| R8634 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W | | | *A-1391-026-A ZG BOARD, COMPLETE | | | |
| | | | | | | | | ***** | | | |
| R8801 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | | | | | | |
| R8803 | 1-216-075-00 | RES-CHIP | 12K | 5% | 1/10W | | | 4-382-854-11 SCREW (M3X10), P, SW (+) | | | |
| R8804 | 1-216-069-00 | RES-CHIP | 6.8K | 5% | 1/10W | | | | | | |
| R8805 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W | | | | | | |
| R8806 | 1-216-041-00 | RES-CHIP | 470 | 5% | 1/10W | | | <CAPACITOR> | | | |
| R8807 | 1-216-033-00 | RES-CHIP | 220 | 5% | 1/10W | C7601 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% | 50V | |
| R8808 | 1-216-053-00 | RES-CHIP | 1.5K | 5% | 1/10W | C7602 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% | 50V | |
| R8809 | 1-216-037-00 | RES-CHIP | 330 | 5% | 1/10W | C7603 | 1-163-038-91 | CERAMIC CHIP 0.1UF | | 25V | |
| R8810 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W | C7604 | 1-126-947-11 | ELECT 47UF | 20.00% | 16V | |
| R8811 | 1-216-091-00 | RES-CHIP | 56K | 5% | 1/10W | C7605 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% | 200V | |
| R8812 | 1-216-067-00 | RES-CHIP | 5.6K | 5% | 1/10W | C7606 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% | 200V | |
| R8813 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | C7607 | 1-107-667-11 | ELECT 2.2UF | 20.00% | 160V | |
| R8814 | 1-216-017-91 | RES-CHIP | 47 | 5% | 1/10W | C7608 | 1-130-471-00 | MYLAR 0.001UF | 5.00% | 50V | |
| R8815 | 1-216-295-91 | SHORT | 0 | | | C7609 | 1-130-471-00 | MYLAR 0.001UF | 5.00% | 50V | |
| R8816 | 1-208-782-11 | METAL CHIP | 1K | 0.5% | 1/10W | C7610 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% | 50V | |
| R8819 | 1-216-295-91 | SHORT | 0 | | | C7611 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% | 50V | |
| R8820 | 1-208-770-11 | METAL CHIP | 330 | 0.5% | 1/10W | C7612 | 1-107-364-11 | MYLAR 0.01UF | 10.00% | 200V | |
| R8821 | 1-208-782-11 | METAL CHIP | 1K | 0.5% | 1/10W | C7613 | 1-126-968-11 | ELECT 100UF | 20.00% | 50V | |
| R8822 | 1-208-770-11 | METAL CHIP | 330 | 0.5% | 1/10W | C7614 | 1-126-968-11 | ELECT 100UF | 20.00% | 50V | |
| R8823 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | C7615 | 1-107-645-11 | ELECT 22UF | 20.00% | 200V | |
| R8824 | 1-208-793-11 | METAL CHIP | 3K | 0.5% | 1/10W | C7616 | 1-161-830-00 | CERAMIC 0.0047UF | | 500V | |
| R8825 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | C7617 | 1-106-220-00 | MYLAR 0.1UF | 10.00% | 100V | |
| R8826 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W | C7618 | 1-106-220-00 | MYLAR 0.1UF | 10.00% | 100V | |
| R8827 | 1-208-789-11 | METAL CHIP | 2K | 0.5% | 1/10W | C7620 | 1-126-935-11 | ELECT 470UF | 20.00% | 6.3V | |
| R8828 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W | C7621 | 1-126-960-11 | ELECT 1UF | 20.00% | 50V | |
| R8829 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W | | | | | | |
| R8830 | 1-216-295-91 | SHORT | 0 | | | | | <CONNECTOR> | | | |
| R8832 | 1-216-295-91 | SHORT | 0 | | | | | | | | |
| R8834 | 1-216-053-00 | RES-CHIP | 1.5K | 5% | 1/10W | CN7601 | *1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| R8835 | 1-216-051-00 | RES-CHIP | 1.2K | 5% | 1/10W | CN7602 | *1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| | | | | | | CN7603 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| R8838 | 1-216-053-00 | RES-CHIP | 1.5K | 5% | 1/10W | CN7604 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| R8840 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | CN7605 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| R8841 | 1-216-081-00 | RES-CHIP | 22K | 5% | 1/10W | | | | | | |
| R8844 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | CN7606 | *1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| R8847 | 1-216-295-91 | SHORT | 0 | | | CN7607 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| | | | | | | CN7608 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| R8848 | 1-216-295-91 | SHORT | 0 | | | CN7609 | 1-695-915-11 | TAB (CONTACT) | | | |
| R8849 | 1-216-035-00 | RES-CHIP | 270 | 5% | 1/10W | | | | | | |
| R8851 | 1-216-041-00 | RES-CHIP | 470 | 5% | 1/10W | | | | | | |
| R8852 | 1-216-041-00 | RES-CHIP | 470 | 5% | 1/10W | | | <DIODE> | | | |
| R8853 | 1-216-093-91 | RES-CHIP | 68K | 5% | 1/10W | | | | | | |
| R8854 | 1-216-083-00 | RES-CHIP | 27K | 5% | 1/10W | D7601 | 8-719-110-36 | DIODE RD13ES-B2 | | | |
| R8855 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W | D7602 | 8-719-110-36 | DIODE RD13ES-B2 | | | |
| R8856 | 1-216-051-00 | RES-CHIP | 1.2K | 5% | 1/10W | D7603 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| R8857 | 1-216-051-00 | RES-CHIP | 1.2K | 5% | 1/10W | D7604 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | | | |
| | | | | | | | | | | | |
| | | | | | | | | <DY> | | | |
| | | | | | | | | DY7601△1-451-476-21 DY | | | |
| | | | | | | | | | | | |
| | | | | | | | | <COIL> | | | |
| | | | | | | | | | | | |
| | | | | | | | | <CRYSTAL> | | | |
| X8301 | 1-781-612-11 | VIBRATOR, CRYSTAL (16.2MHZ) | | | | L7601 | 1-412-911-11 | FERRITE 0UH | | | |
| X8302 | 1-781-612-11 | VIBRATOR, CRYSTAL (16.2MHZ) | | | | L7602 | 1-414-187-11 | INDUCTOR 47UH | | | |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------------------------|--------------|-----------------------------|------------|--------------------|--------------|-----------------------------|-------------|
| <TRANSISTOR> | | | | <CAPACITOR> | | | |
| Q7601 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C7401 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V |
| Q7602 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | C7402 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| Q7603 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | | C7403 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| Q7604 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | C7404 | 1-126-947-11 | ELECT 47UF | 20.00% 16V |
| Q7605 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C7405 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| Q7606 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | C7406 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V |
| Q7607 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C7407 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% 200V |
| Q7608 | 8-729-045-04 | TRANSISTOR 2SC5511 | | C7408 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% 200V |
| Q7609 | 8-729-045-05 | TRANSISTOR 2SA2005 | | C7409 | 1-107-667-11 | ELECT 2.2UF | 20.00% 160V |
| Q7610 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | C7410 | 1-130-471-00 | MYLAR 0.001UF | 5.00% 50V |
| <RESISTOR> | | | | C7411 | 1-130-471-00 | MYLAR 0.001UF | 5.00% 50V |
| R7601 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | C7412 | 1-107-364-11 | MYLAR 0.01UF | 10.00% 200V |
| R7602 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% 1/10W | C7413 | 1-126-968-11 | ELECT 100UF | 20.00% 50V |
| R7603 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% 1/10W | C7414 | 1-126-968-11 | ELECT 100UF | 20.00% 50V |
| R7604 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | C7415 | 1-107-645-11 | ELECT 22UF | 20.00% 200V |
| R7605 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W | C7416 | 1-161-830-00 | CERAMIC 0.0047UF | 500V |
| R7606 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W | C7418 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V |
| R7607 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W | <CONNECTOR> | | | |
| R7608 | 1-249-393-11 | CARBON 10 | 5% 1/4W | CN7401 * | 1-564-509-11 | PLUG, CONNECTOR 6P | |
| R7609 | 1-216-001-00 | RES-CHIP 10 | 5% 1/10W | CN7403 * | 1-564-518-11 | PLUG, CONNECTOR 3P | |
| R7610 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | CN7404 * | 1-564-507-11 | PLUG, CONNECTOR 4P | |
| R7611 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W | CN7405 * | 1-580-844-11 | PIN, CONNECTOR (POWER) | |
| R7612 | 1-249-414-11 | CARBON 560 | 5% 1/4W | <DIODE> | | | |
| R7613 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | D7401 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| R7614 | 1-249-414-11 | CARBON 560 | 5% 1/4W | D7403 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7615 | 1-249-415-11 | CARBON 680 | 5% 1/4W | D7404 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7616 | 1-249-433-11 | CARBON 22K | 5% 1/4W | D7405 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| R7617 | 1-249-433-11 | CARBON 22K | 5% 1/4W | <DY> | | | |
| R7618 | 1-249-415-11 | CARBON 680 | 5% 1/4W | DY7401 \triangle | 1-451-476-21 | DY | |
| R7619 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | <COIL> | | | |
| R7620 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | L7401 | 1-412-911-11 | FERRITE 0UH | |
| R7621 | 1-249-417-11 | CARBON 1K | 5% 1/4W | L7402 | 1-414-187-11 | INDUCTOR 47UH | |
| R7622 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | <TRANSISTOR> | | | |
| R7623 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | Q7401 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| R7624 | 1-249-405-11 | CARBON 100 | 5% 1/4W | Q7402 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| R7625 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | Q7403 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| R7626 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | Q7404 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| R7627 | 1-249-405-11 | CARBON 100 | 5% 1/4W | Q7405 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| R7628 | 1-215-913-11 | METAL OXIDE 220 | 5% 3W | Q7406 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| R7631 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | Q7407 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | |
| R7632 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W | Q7408 | 8-729-045-04 | TRANSISTOR 2SC5511 | |
| R7633 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | Q7409 | 8-729-045-05 | TRANSISTOR 2SA2005 | |
| R7634 | 1-216-295-91 | SHORT 0 | | Q7410 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| ***** | | | | | | | |
| * A-1391-025-A ZR BOARD, COMPLETE | | | | | | | |
| ***** | | | | | | | |
| 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | | | | |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------------------------|--------------|---------------------|-------------|---------|----------------|---------------------------------|-------------|
| | | <RESISTOR> | | | | | |
| R7401 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% 1/10W | C7815 | 1-107-645-11 | ELECT 22UF | 20.00% 200V |
| R7402 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% 1/10W | C7816 | 1-161-830-00 | CERAMIC 0.0047UF | 500V |
| R7403 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | C7818 | 1-126-935-11 | ELECT 470UF | 20.00% 6.3V |
| R7404 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W | | | | |
| R7405 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W | | | <CONNECTOR> | |
| R7406 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W | CN7801 | * 1-564-509-11 | PLUG, CONNECTOR 6P | |
| R7407 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | CN7802 | * 1-564-507-11 | PLUG, CONNECTOR 4P | |
| R7408 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W | CN7803 | * 1-564-506-11 | PLUG, CONNECTOR 3P | |
| R7409 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | CN7804 | * 1-580-844-11 | PIN, CONNECTOR (POWER) | |
| R7410 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | CN7805 | * 1-564-506-11 | PLUG, CONNECTOR 3P | |
| R7411 | 1-249-414-11 | CARBON 560 | 5% 1/4W | | | | |
| R7412 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W | | | <DIODE> | |
| R7413 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | D7801 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7414 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W | D7802 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7415 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | D7803 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| R7416 | 1-216-001-00 | RES-CHIP 10 | 5% 1/10W | D7804 | 1-535-303-00 | LEAD, JUMPER (5.0MM) | |
| R7417 | 1-249-414-11 | CARBON 560 | 5% 1/4W | | | | |
| R7418 | 1-216-001-00 | RES-CHIP 10 | 5% 1/10W | | | <DY> | |
| R7419 | 1-249-415-11 | CARBON 680 | 5% 1/4W | | | | |
| R7420 | 1-249-433-11 | CARBON 22K | 5% 1/4W | | | | |
| R7421 | 1-249-433-11 | CARBON 22K | 5% 1/4W | | | DY7801 \triangle 1-451-476-21 | DYJ7101 |
| R7422 | 1-249-415-11 | CARBON 680 | 5% 1/4W | | | | |
| R7423 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | <COIL> | |
| R7424 | 1-249-405-11 | CARBON 100 | 5% 1/4W | L7801 | 1-412-911-11 | FERRITE 0UH | |
| R7425 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | L7802 | 1-414-187-11 | INDUCTOR 47UH | |
| R7426 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | | | | |
| R7427 | 1-249-405-11 | CARBON 100 | 5% 1/4W | | | <TRANSISTOR> | |
| R7428 | 1-215-913-11 | METAL OXIDE 220 | 5% 3W | Q7801 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| R7431 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | Q7802 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| R7432 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W | Q7803 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | |
| R7433 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | Q7804 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| R7434 | 1-216-295-91 | SHORT 0 | | Q7805 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| ***** | | | | Q7806 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| * A-1391-027-A ZB BOARD, COMPLETE | | | | Q7807 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| ***** | | | | Q7808 | 8-729-045-04 | TRANSISTOR 2SC5511 | |
| 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | Q7809 | 8-729-045-05 | TRANSISTOR 2SA2005 | |
| <CAPACITOR> | | | | Q7810 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| C7801 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | | | <RESISTOR> | |
| C7802 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | R7801 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W |
| C7803 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | R7802 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% 1/10W |
| C7804 | 1-126-947-11 | ELECT 47UF | 20.00% 16V | R7803 | 1-208-800-11 | METAL CHIP 5.6K | 0.5% 1/10W |
| C7805 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% 200V | R7804 | 1-208-806-11 | METAL CHIP 10K | 0.5% 1/10W |
| C7806 | 1-104-989-91 | MYLAR 0.0022UF | 10.00% 200V | R7805 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W |
| C7807 | 1-107-667-11 | ELECT 2.2UF | 20.00% 160V | R7806 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W |
| C7808 | 1-130-471-00 | MYLAR 0.001UF | 5.00% 50V | R7807 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W |
| C7809 | 1-130-471-00 | MYLAR 0.001UF | 5.00% 50V | R7808 | 1-216-001-00 | RES-CHIP 10 | 5% 1/10W |
| C7810 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | R7809 | 1-216-001-00 | RES-CHIP 10 | 5% 1/10W |
| C7811 | 1-163-021-91 | CERAMIC CHIP 0.01UF | 10.00% 50V | R7810 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W |
| C7812 | 1-107-364-11 | MYLAR 0.01UF | 10.00% 200V | R7811 | 1-216-475-11 | METAL OXIDE 120 | 5% 3W |
| C7813 | 1-126-968-11 | ELECT 100UF | 20.00% 50V | R7812 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| C7814 | 1-126-968-11 | ELECT 100UF | 20.00% 50V | R7813 | 1-249-414-11 | CARBON 560 | 5% 1/4W |
| | | | | R7814 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------------------------------|----------------|----------------------|-------------|---------|--------------------------|-----------------------------|------------|
| R7815 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | D7109 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7816 | 1-249-414-11 | CARBON 560 | 5% 1/4W | D7110 | 8-719-110-36 | DIODE RD13ES-B2 | |
| R7817 | 1-249-415-11 | CARBON 680 | 5% 1/4W | | | | |
| R7818 | 1-249-433-11 | CARBON 22K | 5% 1/4W | | | <IC> | |
| R7819 | 1-249-433-11 | CARBON 22K | 5% 1/4W | IC7101 | 8-759-360-83 | IC TDA6111Q/N4 | |
| R7820 | 1-249-415-11 | CARBON 680 | 5% 1/4W | | | | |
| R7821 | 1-249-417-11 | CARBON 1K | 5% 1/4W | | | <JACK> | |
| R7822 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | J7101 | \triangle 1-251-182-41 | SOCKET, CRT | |
| R7823 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | | | | |
| R7824 | 1-249-405-11 | CARBON 100 | 5% 1/4W | | | <COIL> | |
| R7825 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | | | | |
| R7826 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W | L7102 | 1-414-223-11 | INDUCTOR 470UH | |
| R7827 | 1-249-405-11 | CARBON 100 | 5% 1/4W | L7103 | 1-414-181-11 | INDUCTOR 4.7UH | |
| R7828 | 1-215-913-11 | METAL OXIDE 220 | 5% 3W | L7104 | 1-414-187-11 | INDUCTOR 47UH | |
| R7831 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | | | | |
| R7832 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W | | | <NEON LAMP> | |
| R7833 | 1-216-009-91 | RES-CHIP 22 | 5% 1/10W | NL7101 | 1-576-354-21 | GAP, SPARK | |
| R7834 | 1-216-295-91 | SHORT 0 | | NL7102 | 1-517-729-31 | GAP, SPARK | |
| ***** | | | | NL7103 | 1-576-354-21 | GAP, SPARK | |
| * A-1332-037-A CR BOARD, COMPLETE | | | | NL7104 | 1-576-354-21 | GAP, SPARK | |
| ***** | | | | NL7105 | 1-576-354-21 | GAP, SPARK | |
| 4-382-854-01 SCREW (M3X8), P, SW (+) | | | | | | | |
| <CAPACITOR> | | | | | | <TRANSISTOR> | |
| C7102 | 1-162-115-00 | CERAMIC 330PF | 10.00% 2KV | Q7101 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| C7103 | 1-107-652-11 | ELECT 10UF | 20.00% 250V | Q7103 | 8-729-255-12 | TRANSISTOR 2SC2551-O | |
| C7104 | 1-126-768-11 | ELECT 2200UF | 20.00% 16V | Q7104 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| C7105 | 1-162-115-00 | CERAMIC 330PF | 10.00% 2KV | | | | |
| C7106 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | | | <RESISTOR> | |
| C7107 | 1-163-038-91 | CERAMIC CHIP 0.1UF | 25V | R7101 | 1-260-132-11 | CARBON 560K | 5% 1/2W |
| C7108 | 1-126-967-11 | ELECT 47UF | 20.00% 50V | R7102 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W |
| C7110 | 1-102-050-00 | CERAMIC 0.01UF | 99% 500V | R7103 | 1-216-295-91 | SHORT 0 | |
| C7111 | 1-161-830-00 | CERAMIC 0.0047UF | 500V | R7105 | 1-260-117-11 | CARBON 33K | 5% 1/2W |
| C7112 | 1-163-224-11 | CERAMIC CHIP 7PF | 0.25PF 50V | R7106 | 1-219-743-11 | CARBON 100 | 5% 1/2W |
| C7116 | 1-107-957-11 | ELECT 1UF | 20.00% 250V | R7107 | 1-208-801-11 | METAL CHIP 6.2K | 0.5% 1/10W |
| C7118 | 1-164-004-11 | CERAMIC CHIP 0.1UF | 10.00% 25V | R7108 | 1-260-133-11 | CARBON 680K | 5% 1/2W |
| <CONNECTOR> | | | | R7109 | 1-208-808-11 | METAL CHIP 12K | 0.5% 1/10W |
| CN7101 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | R7110 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% 1/10W |
| CN7102 | * 1-564-510-11 | PLUG, CONNECTOR 7P | | R7111 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W |
| CN7103 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | R7112 | 1-249-424-11 | CARBON 3.9K | 5% 1/4W |
| CN7104 | 1-785-879-11 | CONNECTOR, ONE TOUCH | | R7113 | 1-216-295-91 | SHORT 0 | |
| CN7107 | 1-695-915-11 | TAB (CONTACT) | | R7114 | 1-216-660-11 | METAL CHIP 2.4K | 0.5% 1/10W |
| <DIODE> | | | | R7115 | 1-208-782-11 | METAL CHIP 1K | 0.5% 1/10W |
| D7102 | 8-719-110-36 | DIODE RD13ES-B2 | | R7116 | 1-215-929-11 | METAL OXIDE 100K | 5% 3W |
| D7103 | 8-719-901-83 | DIODE 1SS83 | | R7117 | 1-260-093-11 | CARBON 330 | 5% 1/2W |
| D7104 | 8-719-901-83 | DIODE 1SS83 | | R7118 | 1-260-087-11 | CARBON 100 | 5% 1/2W |
| D7105 | 8-719-901-83 | DIODE 1SS83 | | R7119 | 1-260-328-11 | CARBON 1K | 5% 1/2W |
| D7106 | 8-719-901-83 | DIODE 1SS83 | | R7120 | 1-216-081-00 | RES-CHIP 22K | 5% 1/10W |
| D7108 | 8-719-988-61 | DIODE 1SS355TE-17 | | R7122 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| | | | | R7123 | 1-216-295-91 | SHORT 0 | |
| | | | | R7124 | 1-216-073-91 | RES-CHIP 10K | 5% 1/10W |
| | | | | R7128 | 1-208-818-11 | METAL CHIP 33K | 0.5% 1/10W |
| | | | | R7129 | 1-249-417-11 | CARBON 1K | 5% 1/4W |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|-------------------------------|------------|---------|--------------------------|-----------------------------|------------|
| R7130 | 1-216-069-00 | RES-CHIP 6.8K | 5% 1/10W | D7208 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| R7131 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | | | <IC> | |
| R7132 | 1-216-295-91 | SHORT 0 | | IC7201 | 8-759-360-83 | IC TDA6111Q/N4 | |
| R7133 | 1-208-834-11 | METAL CHIP 150K | 0.5% 1/10W | | | <JACK> | |
| R7134 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W | J7201 | \triangle 1-251-182-41 | SOCKET, CRT | |
| R7135 | 1-216-053-00 | RES-CHIP 1.5K | 5% 1/10W | | | <COIL> | |
| | | <SPARK GAP> | | L7201 | 1-414-223-11 | INDUCTOR 470UH | |
| SG7101 | 1-519-422-11 | GAP, SPARK | | L7203 | 1-414-181-11 | INDUCTOR 4.7UH | |
| SG7103 | 1-519-422-11 | GAP, SPARK | | L7204 | 1-414-187-11 | INDUCTOR 47UH | |
| | | <TEST PIN> | | | | <NEON LAMP> | |
| TP7102 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | NL7201 | 1-576-354-21 | GAP, SPARK | |
| TP7105 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | NL7202 | 1-576-354-21 | GAP, SPARK | |
| ***** | | | | NL7203 | 1-517-729-31 | GAP, SPARK | |
| | | | | NL7204 | 1-576-354-21 | GAP, SPARK | |
| | | | | NL7205 | 1-576-354-21 | GAP, SPARK | |
| | | | | | | <TRANSISTOR> | |
| | | | | Q7201 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | | | | Q7202 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| | | | | Q7203 | 8-729-255-12 | TRANSISTOR 2SC2551-O | |
| | | | | | | <RESISTOR> | |
| | | | | R7201 | 1-260-132-11 | CARBON 560K | 5% 1/2W |
| | | | | R7202 | 1-216-295-91 | SHORT 0 | |
| | | | | R7203 | 1-208-846-11 | METAL CHIP 470K | 0.5% 1/10W |
| | | | | R7204 | 1-219-743-11 | CARBON 100 | 5% 1/2W |
| | | | | R7205 | 1-260-117-11 | CARBON 33K | 5% 1/2W |
| | | | | R7206 | 1-208-801-11 | METAL CHIP 6.2K | 0.5% 1/10W |
| | | | | R7207 | 1-208-808-11 | METAL CHIP 12K | 0.5% 1/10W |
| | | | | R7208 | 1-216-033-00 | RES-CHIP 220 | 5% 1/10W |
| | | | | R7209 | 1-260-133-11 | CARBON 680K | 5% 1/2W |
| | | | | R7210 | 1-208-790-11 | METAL CHIP 2.2K | 0.5% 1/10W |
| | | | | R7211 | 1-249-424-11 | CARBON 3.9K | 5% 1/4W |
| | | | | R7212 | 1-208-789-11 | METAL CHIP 2K | 0.5% 1/10W |
| | | | | R7213 | 1-215-929-11 | METAL OXIDE 100K | 5% 3W |
| | | | | R7214 | 1-216-295-91 | SHORT 0 | |
| | | | | R7215 | 1-208-782-11 | METAL CHIP 1K | 0.5% 1/10W |
| | | | | R7216 | 1-260-093-11 | CARBON 330 | 5% 1/2W |
| | | | | R7217 | 1-216-295-91 | SHORT 0 | |
| | | | | R7218 | 1-260-328-11 | CARBON 1K | 5% 1/2W |
| | | | | R7219 | 1-216-295-91 | SHORT 0 | |
| | | | | R7220 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| | | | | R7222 | 1-216-295-91 | SHORT 0 | |
| | | | | R7223 | 1-208-802-11 | METAL CHIP 6.8K | 0.5% 1/10W |
| | | | | R7224 | 1-208-799-11 | METAL CHIP 5.1K | 0.5% 1/10W |
| | | | | R7225 | 1-216-081-00 | RES-CHIP 22K | 5% 1/10W |
| | | | | R7229 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| D7202 | 8-719-110-36 | DIODE RD13ES-B2 | | | | | |
| D7203 | 8-719-901-83 | DIODE 1SS83 | | | | | |
| D7204 | 8-719-901-83 | DIODE 1SS83 | | | | | |
| D7205 | 8-719-901-83 | DIODE 1SS83 | | | | | |
| D7206 | 8-719-901-83 | DIODE 1SS83 | | | | | |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|-------------------------------|--------|---------|--------------------------|-----------------------------|--------|
| R7235 | 1-216-053-00 | RES-CHIP 1.5K 5% 1/10W | | | | <IC> | |
| | | <SPARK GAP> | | IC7301 | 8-759-360-83 | IC TDA6111Q/N4 | |
| SG7201 | 1-519-422-11 | GAP, SPARK | | | | <JACK> | |
| SG7203 | 1-519-422-11 | GAP, SPARK | | J7301 | \triangle 1-251-182-41 | SOCKET, CRT | |
| | | <TEST PIN> | | | | <COIL> | |
| TP7202 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | L7301 | 1-414-223-11 | INDUCTOR 470UH | |
| TP7205 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | L7303 | 1-414-181-11 | INDUCTOR 4.7UH | |
| ***** | | | | L7304 | 1-414-187-11 | INDUCTOR 47UH | |
| | | <CAPACITOR> | | | | <NEON LAMP> | |
| | * A-1332-039-A | CB BOARD, COMPLETE | | NL7301 | 1-576-354-21 | GAP, SPARK | |
| | | ***** | | NL7302 | 1-517-729-31 | GAP, SPARK | |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+) | | NL7303 | 1-576-354-21 | GAP, SPARK | |
| | | <CAPACITOR> | | NL7304 | 1-576-354-21 | GAP, SPARK | |
| C7302 | 1-162-115-00 | CERAMIC 330PF 10.00% 2KV | | NL7305 | 1-576-354-21 | GAP, SPARK | |
| C7303 | 1-162-115-00 | CERAMIC 330PF 10.00% 2KV | | | | <TRANSISTOR> | |
| C7304 | 1-126-768-11 | ELECT 2200UF 20.00% 16V | | Q7301 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| C7305 | 1-163-038-91 | CERAMIC CHIP 0.1UF 25V | | Q7302 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| C7306 | 1-163-038-91 | CERAMIC CHIP 0.1UF 25V | | Q7303 | 8-729-255-12 | TRANSISTOR 2SC2551-O | |
| C7307 | 1-107-652-11 | ELECT 10UF 20.00% 250V | | Q7305 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| C7308 | 1-126-967-11 | ELECT 47UF 20.00% 50V | | Q7306 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| C7309 | 1-163-085-00 | CERAMIC CHIP 2PF 0.25PF 50V | | | | <RESISTOR> | |
| C7311 | 1-102-050-00 | CERAMIC 0.01UF 99% 500V | | R7301 | 1-219-743-11 | CARBON 100 5% 1/2W | |
| C7312 | 1-161-830-00 | CERAMIC 0.0047UF 500V | | R7302 | 1-260-132-11 | CARBON 560K 5% 1/2W | |
| C7313 | 1-163-091-00 | CERAMIC CHIP 8PF 0.25PF 50V | | R7304 | 1-216-295-91 | SHORT 0 | |
| C7314 | 1-126-964-11 | ELECT 10UF 20.00% 50V | | R7306 | 1-260-328-11 | CARBON 1K 5% 1/2W | |
| C7315 | 1-126-960-11 | ELECT 1UF 20.00% 50V | | R7307 | 1-208-801-11 | METAL CHIP 6.2K 0.5% 1/10W | |
| C7318 | 1-107-957-11 | ELECT 1UF 20.00% 250V | | R7308 | 1-260-133-11 | CARBON 680K 5% 1/2W | |
| | | <CONNECTOR> | | R7309 | 1-208-790-11 | METAL CHIP 2.2K 0.5% 1/10W | |
| CN7301 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | R7310 | 1-216-295-91 | SHORT 0 | |
| CN7302 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | R7311 | 1-208-808-11 | METAL CHIP 12K 0.5% 1/10W | |
| CN7303 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | R7312 | 1-216-660-11 | METAL CHIP 2.4K 0.5% 1/10W | |
| CN7304 | 1-785-879-11 | CONNECTOR, ONE TOUCH | | R7313 | 1-216-033-00 | RES-CHIP 220 5% 1/10W | |
| CN7307 | 1-695-915-11 | TAB (CONTACT) | | R7314 | 1-249-424-11 | CARBON 3.9K 5% 1/4W | |
| | | <DIODE> | | R7315 | 1-216-295-91 | SHORT 0 | |
| D7302 | 8-719-110-36 | DIODE RD13ES-B2 | | R7316 | 1-215-929-11 | METAL OXIDE 100K 5% 3W | |
| D7303 | 8-719-901-83 | DIODE 1SS83 | | R7317 | 1-260-093-11 | CARBON 330 5% 1/2W | |
| D7304 | 8-719-901-83 | DIODE 1SS83 | | R7318 | 1-216-295-91 | SHORT 0 | |
| D7305 | 8-719-901-83 | DIODE 1SS83 | | R7319 | 1-208-798-11 | METAL CHIP 4.7K 0.5% 1/10W | |
| D7306 | 8-719-901-83 | DIODE 1SS83 | | R7320 | 1-260-087-11 | CARBON 100 5% 1/2W | |
| D7307 | 8-719-988-61 | DIODE 1SS355TE-17 | | R7321 | 1-260-117-11 | CARBON 33K 5% 1/2W | |
| D7308 | 8-719-110-36 | DIODE RD13ES-B2 | | R7322 | 1-208-782-11 | METAL CHIP 1K 0.5% 1/10W | |
| D7309 | 8-719-988-61 | DIODE 1SS355TE-17 | | R7323 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | |
| D7311 | 8-719-110-36 | DIODE RD13ES-B2 | | R7324 | 1-216-295-91 | SHORT 0 | |
| D7312 | 8-719-110-36 | DIODE RD13ES-B2 | | R7326 | 1-208-803-11 | METAL CHIP 7.5K 0.5% 1/10W | |
| | | | | R7327 | 1-208-798-11 | METAL CHIP 4.7K 0.5% 1/10W | |
| | | | | R7328 | 1-216-073-91 | RES-CHIP 10K 5% 1/10W | |

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

KP-ER43M31/M61/M90/M91, ER53M31/M61/M90/M91

RM-961



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--|----------------|-------------------------------|---------------|------------------|----------------------------------|-------------|--------|
| R7329 | 1-216-091-00 | RES-CHIP | 56K 5% 1/10W | * 4-077-593-01 | TRAY(KP-ER43) | | |
| R7330 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | * 4-084-838-01 | BOARD, TOP (KP-ER53) | | |
| R7331 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W | * 4-084-839-01 | BOARD, BOTTOM (KP-ER53) | | |
| R7332 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | * 4-084-837-01 | TRAY(KP-ER53) | | |
| R7335 | 1-249-417-11 | CARBON | 1K 5% 1/4W | * 4-077-595-01 | CUSHION (UPPER) (ASSY) (KP-ER43) | | |
| R7336 | 1-216-053-00 | RES-CHIP | 1.5K 5% 1/10W | * 4-083-334-01 | CUSHION (LOWER) (ASSY) (KP-ER43) | | |
| <SPARK GAP> | | | | * 4-087-625-01 | INDIVIDUAL CARTON (KP-ER43) | | |
| SG7301 | 1-519-422-11 | GAP, SPARK | | * 4-084-840-01 | CUSHION (UPPER) (ASSY) (KP-ER53) | | |
| SG7303 | 1-519-422-11 | GAP, SPARK | | * 4-084-841-01 | CUSHION (LOWER) (ASSY) (KP-ER53) | | |
| <TEST PIN> | | | | 4-087-601-11 | MANUAL, INSTRUCTION | | |
| TP7302 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | * 4-087-648-01 | INDIVIDUAL CARTON (KP-ER53) | | |
| TP7304 | * 1-535-881-21 | TERMINAL, TP (AUTO INSERTION) | | ***** | | | |
| ***** | | | | REMOTE COMMANDER | | | |
| | | | | ***** | | | |
| MISCELLANEOUS | | | | 1-476-170-11 | REMOTE COMMANDER (RM-961) | | |
| ***** | | | | 4-978-977-01 | COVER, BATTERY (for RM-961) | | |
| | | | | | | | |
| \triangle 1-223-925-71 RESISTOR ASSY (HIGH-VOLTAGE) | | | | | | | |
| (FOCUS PACK) | | | | | | | |
| \triangle 1-452-790-41 NECK ASSY (NA-295) | | | | | | | |
| 1-528-864-11 BATTERY, SOLAR | | | | | | | |
| 1-529-403-21 SPEAKER (6.6 CM) (KP-ER53) | | | | | | | |
| 1-544-849-11 SPEAKER (13 CM) (KP-ER53) | | | | | | | |
| 1-544-888-11 SPEAKER (10 CM) (KP-ER53) | | | | | | | |
| 1-543-982-11 CORE, FERRITE | | | | | | | |
| 1-790-082-11 CABLE, RF | | | | | | | |
| \triangle 1-574-062-52 CORD, POWER (WITH CONNECTOR) | | | | | | | |
| (ER43M61/M91, ER53M61/M91) | | | | | | | |
| \triangle 1-792-002-11 CORD, POWER (WITH FILTER) | | | | | | | |
| (ER43M90, ER53M90) | | | | | | | |
| \triangle 1-792-035-11 CORD, POWER (WITH FILTER) | | | | | | | |
| (ER43M31, ER53M31) | | | | | | | |
| \triangle 8-598-955-13 BLOCK ASSY, HV HVB-1030 | | | | | | | |
| \triangle 8-733-570-35 PICTURE TUBE 07MXC2 (G) (NEW GUN) | | | | | | | |
| \triangle 8-733-571-35 PICTURE TUBE 07MXC2 (R) (NEWGUN) | | | | | | | |
| (KP-ER43) | | | | | | | |
| \triangle 8-733-572-35 PICTURE TUBE 07MXC3 (R)(NEWGUN) | | | | | | | |
| (KP-ER53) | | | | | | | |
| \triangle 8-733-574-15 PICTURE TUBE 07MAC2 (B) (C/D CPL) | | | | | | | |
| (KP-ER43) | | | | | | | |
| \triangle 8-733-575-15 PICTURE TUBE 07MAC3 (B) (C/D CPL) | | | | | | | |
| (KP-ER53) | | | | | | | |
| ***** | | | | | | | |
| ACCESSORIES AND PACKING MATERIALS | | | | | | | |
| ***** | | | | | | | |
| * 4-029-168-01 BAG, PROTECTION (KP-ER43) | | | | | | | |
| * 4-041-423-11 SHEET, PROTECTION (KP-ER43) | | | | | | | |
| * 4-055-672-01 BAG, PROTECTION (KP-ER53) | | | | | | | |
| * 4-055-673-01 SHEET, PROTECTION (KP-ER53) | | | | | | | |
| * 4-070-116-01 BOARD, TOP (KP-ER43) | | | | | | | |

Projection TV

Operating Instructions

GB

- Before operating the unit, please read this manual thoroughly and retain it for future reference.

Mode d'emploi

FR

- Avant de faire fonctionner cet appareil, lisez attentivement le présent mode d'emploi et conservez-le pour toute référence ultérieure.

使用説明書

CT

- 使用本電視機之前請先詳細閱讀此手冊，並妥善保存以備日後用作參考。

使用说明书

CS

- 使用本电视机之前请先详细阅读此手册，并妥善保存以备日后用作参考。

دفترچه راهنما

PR

- قبل از تنظیم کردن دستگاه، لطفا دفترچه راهنما را با دقت بخوانید و به منظور مراجعه بعدی آن را نگه دارید.

تعليمات التشغيل

AR

- قبل تشغيل الجهاز، نرجى قراءة هذا الدليل بصورة كاملة والاحتفاظ به للمراجعة مستقبلا.

KP-ER53
KP-ER43

M90, M91, M61, M31

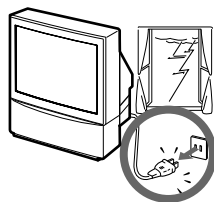
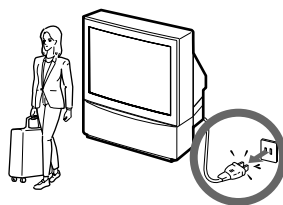
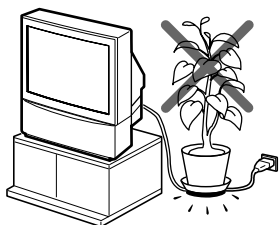
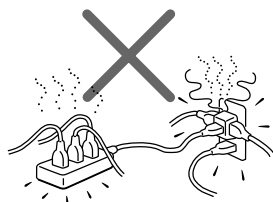
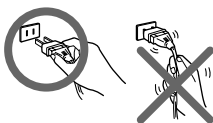
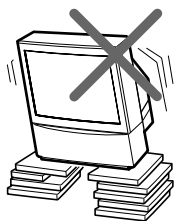
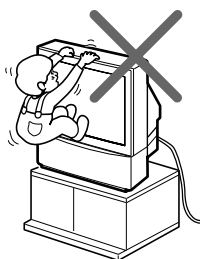
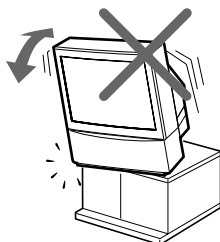
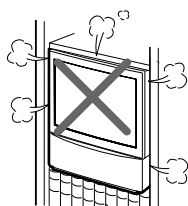
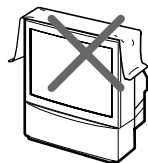
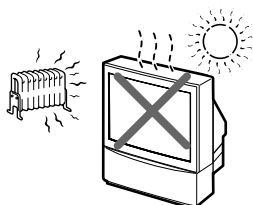
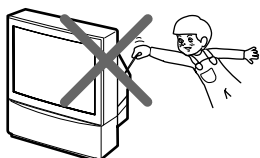
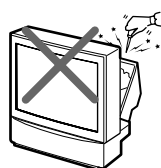
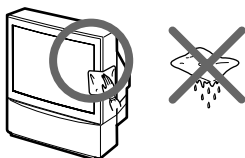
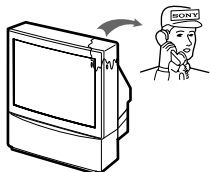
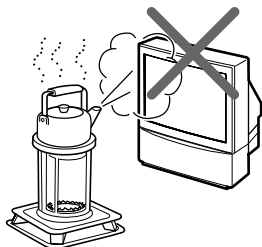
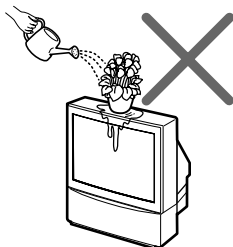
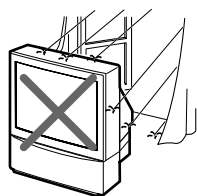


Table of Contents

WARNING

Using Your New Projection TV

| | |
|---|----|
| Getting Started | 5 |
| Step 1: Connect the antenna | 5 |
| Step 2: Insert the batteries into the remote | 6 |
| Step 3: Preset the channels automatically | 6 |
| Step 4: Adjusting the convergence automatically | 7 |
| Connecting optional components | 8 |
| Installing the projection TV | 12 |
| Watching the TV | 13 |


Advanced Operations

| | |
|--|----|
| Selecting the picture and sound modes | 17 |
| Viewing higher quality pictures | 18 |
| Viewing your favorite channels | 19 |
| Watching two programs at the same time | 20 |
| Displaying multiple programs | 22 |
| Enjoying stereo or bilingual programs | 24 |
| Viewing Teletext | 26 |
| Operating optional components | 28 |


Adjusting Your Setup (MENU)

| | |
|-----------------------------------|----|
| Introducing the menu system | 30 |
|-----------------------------------|----|


Changing the "A/V CONTROL"

| | |
|---|----|
| setting  | 33 |
|---|----|

Changing the "MULTI PICTURE"

| | |
|---|----|
| setting  | 36 |
|---|----|


Changing the "FEATURE"

| | |
|---|----|
| setting  | 38 |
|---|----|

Changing the "SET UP" setting ...

| |
|----|
| 40 |
|----|

Changing the "CH PRESET"

| | |
|---|----|
| setting  | 43 |
|---|----|

Additional Information

| | |
|-----------------------|----|
| Troubleshooting | 46 |
|-----------------------|----|

| | |
|-------------------------------|----|
| Self-diagnosis function | 49 |
|-------------------------------|----|


| | |
|--------------------------------------|----|
| Identifying parts and controls | 50 |
|--------------------------------------|----|

| | |
|----------------------|------------|
| Specifications | Back cover |
|----------------------|------------|

The features you will enjoy include:

- "DRC-MF" for viewing higher quality pictures (page 18)
- "FAVORITE CH" for quick and easy program selection (page 19)
- "PIP" & "TWIN" for viewing two programs (page 20)
- "PROGRAM INDEX" for displaying multiple programs (page 22)
- "PICTURE MODE" / "SOUND MODE" for customizing your projection TV (page 17)
- "WIDE MODE" to view 16:9 pictures (page 39)

Your projection TV also offers the following features:

- Digital Quick Focus function for automatic convergence adjustment (page 7)
- Menu language options — English/Chinese/Arabic (page 15)
- "CHILD LOCK" for locking out specific channels (page 41)
- "INTELLIGENT VOL" for automatic volume adjustment (page 40)
- "FINE" tuning feature (page 45)
- Button Joystick  on the remote control for easier operation (page 15)
- "ECO MODE" to save energy (page 39)
- "GAME MODE" for video games (page 39)

WARNING

To prevent fire or shock hazard, do not expose the projection TV to rain or moisture. Dangerously high voltages are present inside the projection TV. Do not open the cabinet. Refer servicing to qualified personnel only.

For general safety:

- Do not expose the projection TV to rain or moisture.
- Do not open the rear cover.

For safe installation:

- Do not block the ventilation openings.
- Do not install the projection TV in hot, humid or excessively dusty places.
- Do not install the projection TV where it may be exposed to mechanical vibrations.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

For safe operations:

- Do not operate the projection TV on anything but 110–240/220–240 V AC, 50/60 Hz.
- Do not operate the projection TV if any liquid or solid object falls in it—have it checked immediately.
- Do not keep the projection TV plugged in if you are not going to use it for several days.
- Do not pull the power cord to disconnect the projection TV. Pull it out by the plug.

Caution

- When using TV games, computers, and similar products with your projection TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Cleaning the Screen

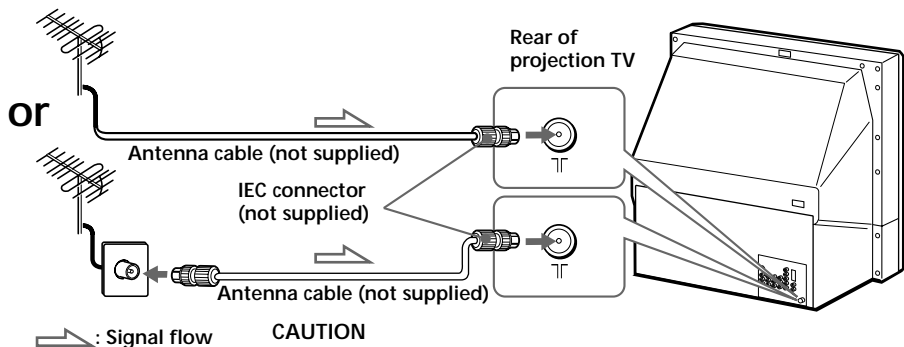
- To clean the screen with a cloth, please use a soft cloth lightly moistened with a mild detergent solution or water. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine. As a safety precaution, unplug the TV before cleaning it.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screw driver. Otherwise, this type of contact may result in a scratched screen.

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.

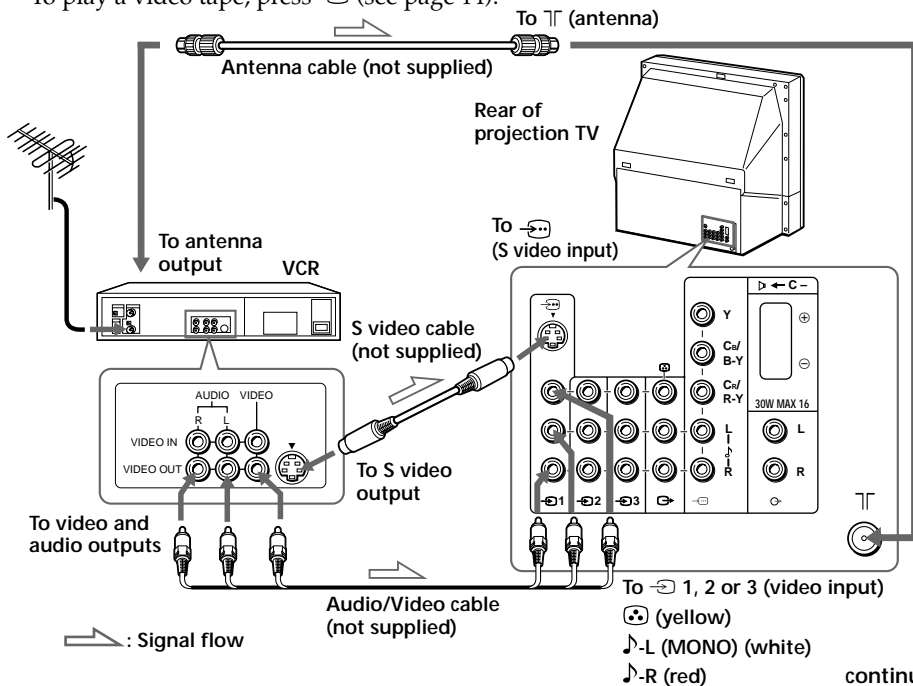


CAUTION

Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

Connecting a VCR








To play a video tape, press (see page 14).



continued

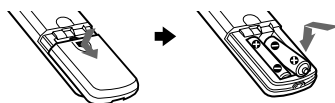
Getting Started (continued)

Notes

- If you connect a monaural VCR, connect the yellow plug to  (the yellow jack) and the black plug to -L (MONO) (the white jack).
- If you connect a VCR to the  (antenna) terminal, preset the signal output from the VCR to the program number 0 on the projection TV.
- When both the  (S video input) and  1 (video input) are connected, the  (S video input) is automatically selected. To view the video input to  1 (video input), disconnect the S video cable.

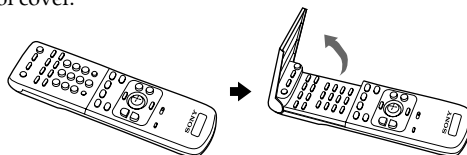
Step 2

Insert the batteries into the remote



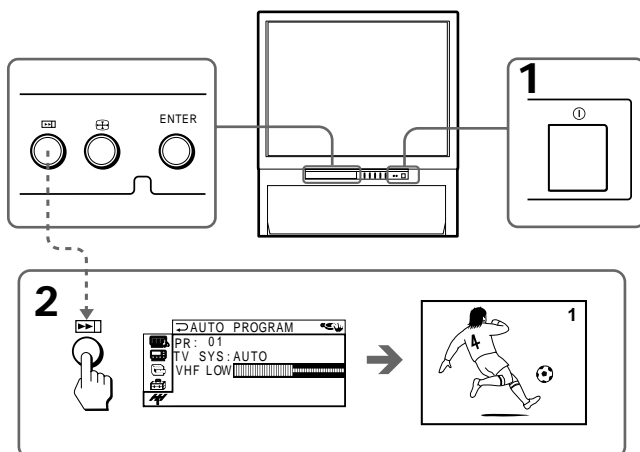
Notes

- Do not use old batteries or different types of batteries together.
- To operate some of the functions of your projection TV, you may have to open the remote control cover.



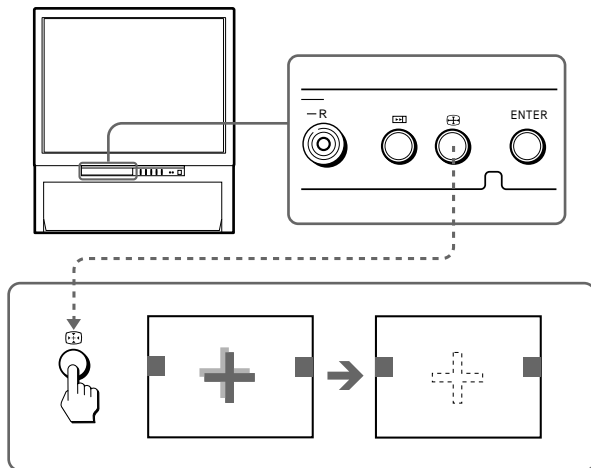
Step 3

Preset the channels automatically



Notes

- To stop the automatic channel presetting, press MENU twice.
- If your projection TV has preset an unwanted channel or cannot preset a particular channel, then preset your projection TV manually (see page 44).

Step 4**Adjusting the convergence automatically****Note**

- Adjust convergence about 20 – 30 minutes after the projection TV is first turned on.
The Digital Quick Focus feature allows you to adjust the convergence automatically.

Automatic convergence adjustment modes

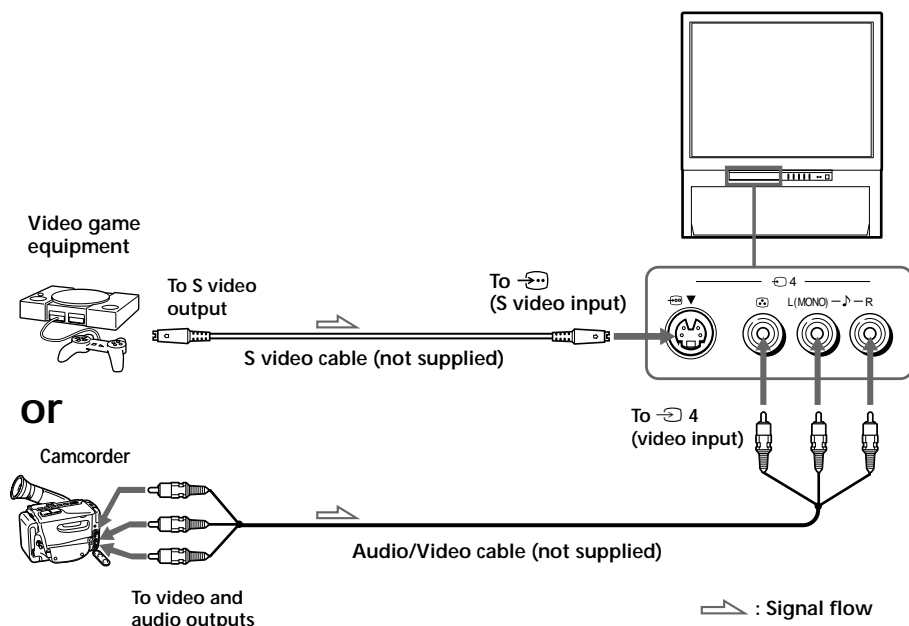
| | DRC1250 | DRC100 | Wide-mode DRC1250 |
|----------------------|---------|--------|-------------------|
| Antenna input signal | ○ | ○ | – |
| Video input signal | ○ | ○ | ○ (NTSC only) |

If the colors do not converge when the above signal is switched, perform the automatic convergence adjustment again.






Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game, or stereo system. To watch and operate the connected equipment, see pages 14 and 28.

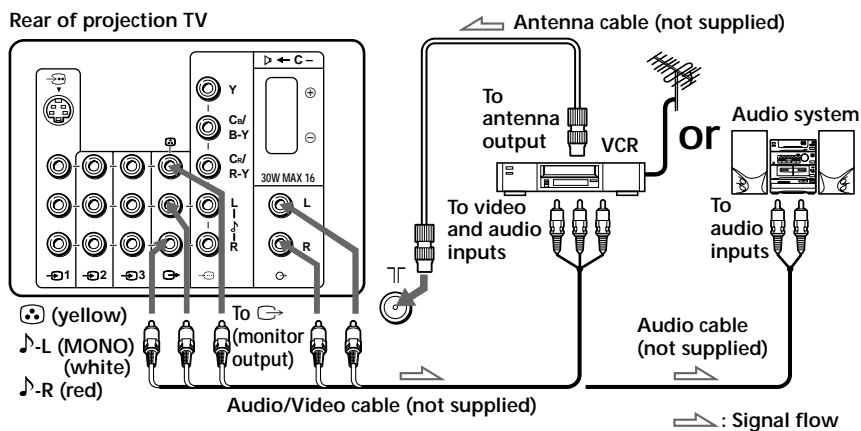
Connecting a camcorder/video game equipment using the (video input) jacks




Notes

- When connecting video game equipment, display the "FEATURE" menu and select "ON" for "GAME MODE" to adjust the picture setting that is suitable for video games (see page 39).
- You can also connect video equipment to the  1, 2, or 3 (video input) jacks at the rear of your projection TV.
- When both the  (S video input) and  4 (video input) are connected, the  (S video input) is automatically selected. To view the video input to  4 (video input), disconnect the S video cable.

Connecting audio/video equipment using the (monitor output) jacks






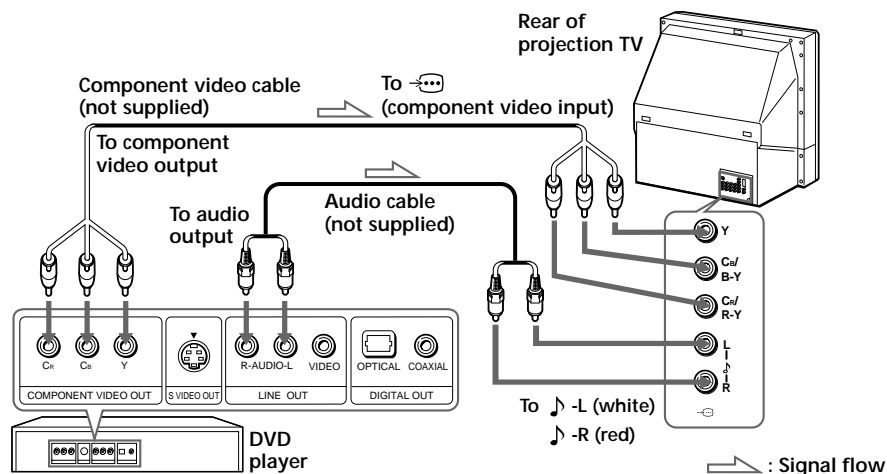
Note

- If you select “DVD” on your TV screen, no signal will be output at the  (monitor output) jacks (see page 14).

Connecting optional components (continued)

Connecting a DVD player to (component video input)


- 1 Using an audio cable, connect R and L under  (component video input) on your projection TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.
- 2 Using a component video cable, connect Y, C_B/B-Y, and C_R/R-Y under  (component video input) on your projection TV to the COMPONENT VIDEO OUT Y, C_B, and C_R output connectors on your DVD player.
- 3 Press  on the remote or the projection TV until "DVD" appears on the screen.





Notes

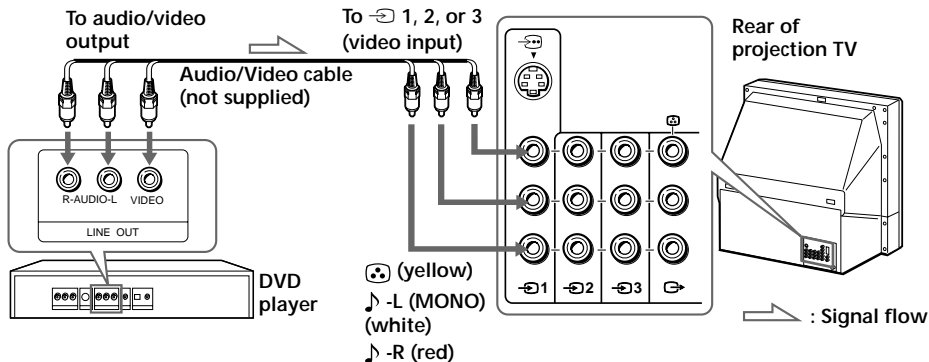
- Some DVD player terminals may be labeled differently:

| Connect | To (on the DVD player) |
|----------------------------|--|
| Y (green) | Y |
| C _B /B-Y (blue) | C _b , B-Y or P _B |
| C _R /R-Y (red) | C _r , R-Y or P _R |


- When connecting to  (component video input) on your projection TV, you must connect Y, C_B, and C_R to receive the video signals, and at least connect L and R to receive analog audio signals.
- Your projection TV does not support the progressive scan output of a DVD player.

Connecting a DVD player to (video input)


Connect  1, 2, or 3 (video input)  (audio/video) connectors on your projection TV to LINE OUT on your DVD player.

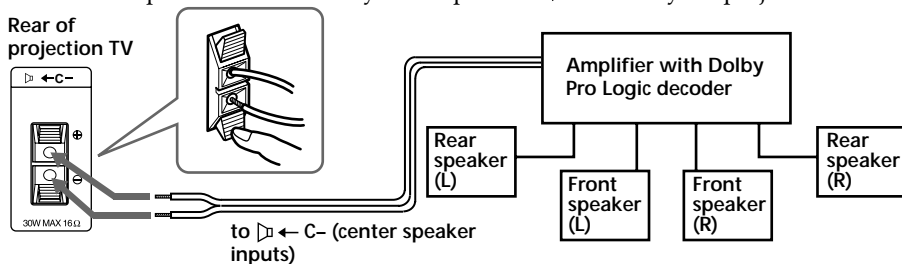


Notes


- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") under "PERSONAL ADJUST" in the "PICTURE MODE" menu (see page 34).
- Connect your DVD player directly to your projection TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.
- If your DVD player can output interlace and progressive mode signals, select the interlace output when connecting to  (component video input) on your projection TV. Your projection TV can receive either 525i/60 Hz or 625i/50 Hz interlace signals.


Connecting an amplifier with Dolby* Pro Logic decoder to C- (center speaker input)

Connect the speaker terminals on your amplifier to  C- on your projection TV.



Note

- When making connection to  C- on your projection TV set "SPEAKER: CENTER IN" in the "A/V CONTROL" menu. (see page 33)

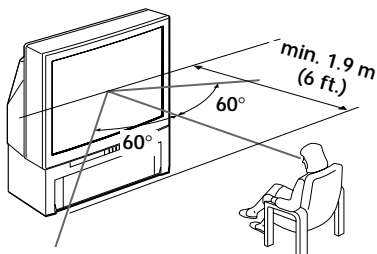
* Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Installing the projection TV

For the best picture quality, install the projection TV within the areas below.

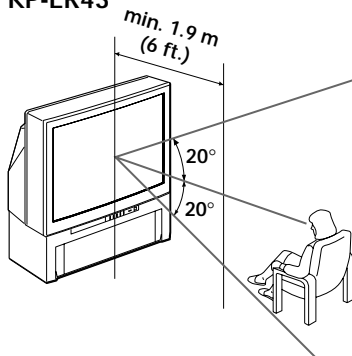
Optimum viewing area (Horizontal)

KP-ER43

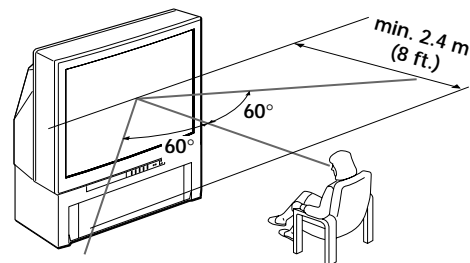


Optimum viewing area (Vertical)

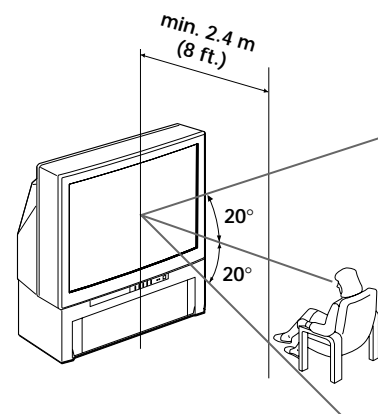
KP-ER43



KP-ER53

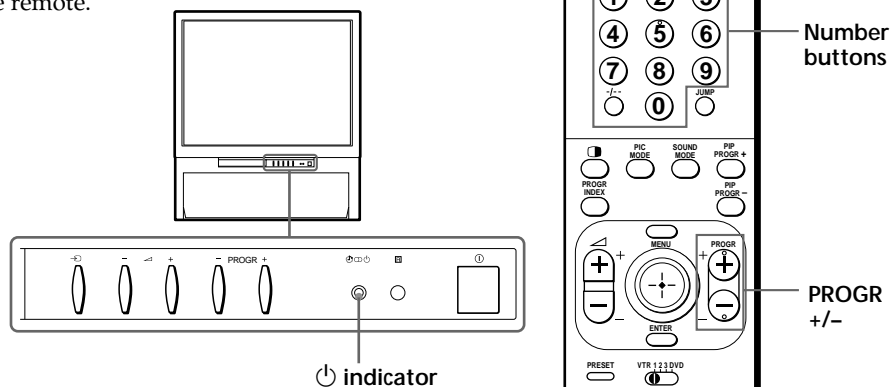


KP-ER53



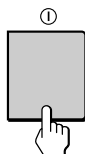
Watching the TV

This section explains various functions and operations used while watching the TV. Most operations can be done using the remote.



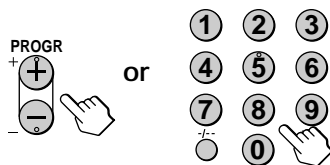
1 Press ① to turn on the projection TV.

When the projection TV is in standby mode (the ① indicator on the projection TV is lit red), press I/⏻ on the remote.



2 Press PROGR +/- or the number buttons to select the TV channel.

For double digit numbers, press -/-, then the number (e.g., for 25, press -/-, then 2 and 5).



Note

- When you turn on the projection TV, either the program number or video mode is displayed for approximately 40 seconds. The ECO MODE (ECO) icon will also appear if "ECO MODE" in the "FEATURE" menu is set "ON" (see page 39).

To select a TV program quickly

- Press and hold PROGR +/-.
- Release PROGR +/- when the desired program number appears.

Note

- When you select a TV program quickly, the picture may be disrupted. This does not indicate a malfunction.

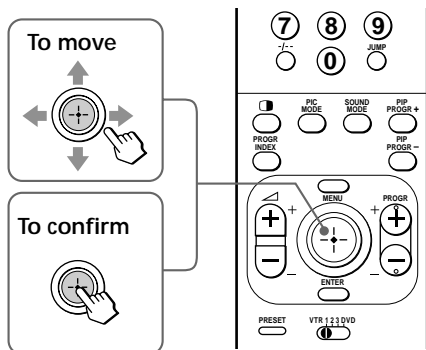
continued



Using the Remote Control Button Joystick (⊕)

You can select the menu item on the screen by moving ⊕ up, down, left or right (see page 32).

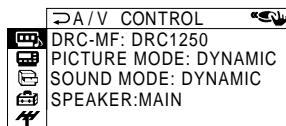
To confirm a selected item, press ⊕.
You can also press ENTER on the remote to confirm a selected item.



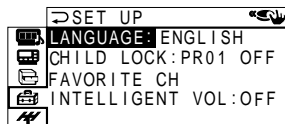
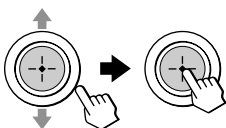
Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "Introducing the menu system" on page 30.

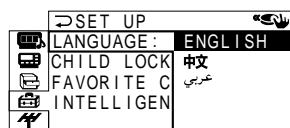
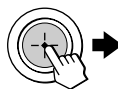
- 1 Press MENU.



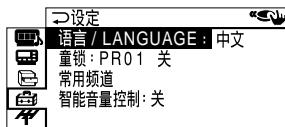
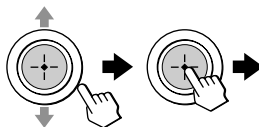
- 2 Move ⊕ up or down to select , then press ⊕.



- 3 Make sure "LANGUAGE" is selected then press ⊕.



- 4 Move ⊕ up or down to select the desired language (e.g., "中文"), then press ⊕.



The selected menu language appears.

To return to the normal screen

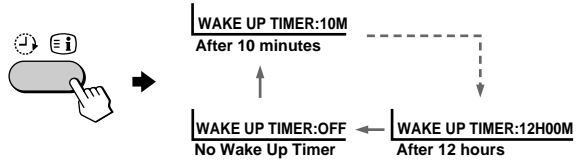
Press MENU.

continued

Watching the TV (continued)

Setting the Wake Up timer

- 1 Press until the desired period of time appears.
The Wake Up timer starts immediately after you have set it.



- 2 Select the TV channel or video mode you want to wake up to.
- 3 Press or set the Sleep timer if you want the projection TV to turn off automatically.
The indicator on the projection TV lights up orange.

To cancel the Wake Up timer

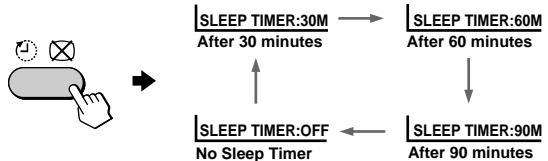
Press until “WAKE UP TIMER: OFF” appears, or turn the projection TV off.

Note

- If no buttons or controls are pressed for more than two hours after the projection TV is turned on using the Wake Up timer, the projection TV automatically goes into standby mode. To resume watching the TV, press any button or control on the projection TV or the remote.

Setting the Sleep timer

Press until the desired period of time appears.
The Sleep timer starts immediately after you have set it.

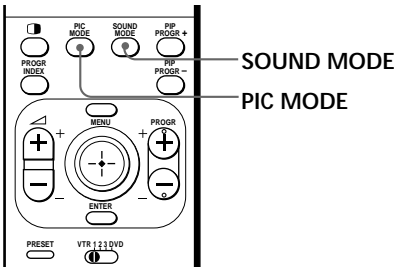


To cancel the Sleep timer

Press until “SLEEP TIMER: OFF” appears, or turn the projection TV off.

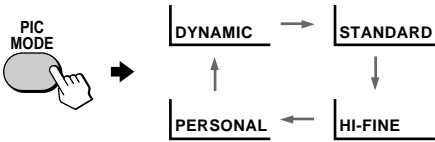
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in the "PERSONAL" option.



Selecting the picture mode

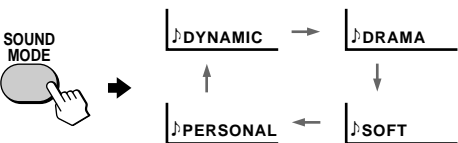
Press PIC MODE repeatedly until the desired picture mode is selected.



| Select | To |
|------------|---|
| "DYNAMIC" | receive high contrast pictures. |
| "STANDARD" | receive normal pictures. |
| "HI-FINE" | receive higher resolution pictures with mild contrast. |
| "PERSONAL" | receive the last adjusted picture setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 34). |

Selecting the sound mode

Press SOUND MODE repeatedly until the desired sound mode is selected.



| Select | To |
|------------|---|
| "DYNAMIC" | listen to dynamic and clear sound that emphasizes both the low and high tones. |
| "DRAMA" | listen to sound that emphasizes voice and high tones. |
| "SOFT" | receive soft sound. |
| "PERSONAL" | receive the last adjusted sound setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 34). |

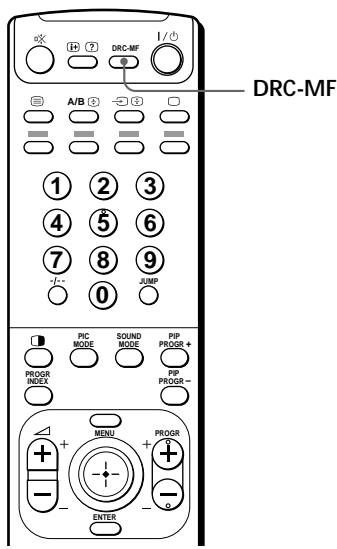
Tip

- You can also set the picture and sound modes using the menu (see "Changing the "A/V CONTROL" setting" on page 33).

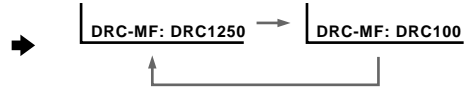
Viewing higher quality pictures

— “DRC-MF”

The Digital Reality Creation-Multi Function (DRC-MF) feature allows you to enjoy higher quality pictures on your projection TV. You can select “DRC1250” to watch super real (higher resolution) pictures, or “DRC100” to reduce flicker if necessary.



Press DRC-MF repeatedly until you receive the desired picture quality.



| Select | To |
|-----------|------------------------------------|
| “DRC1250” | select higher resolution pictures. |
| “DRC100” | reduce flicker on the screen. |

Tip

- When the broadcast signal is weak, you may see some dots or noise on the TV screen. To reduce this interference, display the “A/V CONTROL” menu and select “ADJUST” in “PICTURE MODE”, then adjust “SHARP” to reduce the sharpness (see page 34).

Note

- The DRC-MF mode is not selectable when using the “PROGRAM INDEX” or “FAVORITE CH” feature, or when the “GAME MODE”, Picture-In-Picture (“PIP”), or “TWIN” mode is turned “ON”.

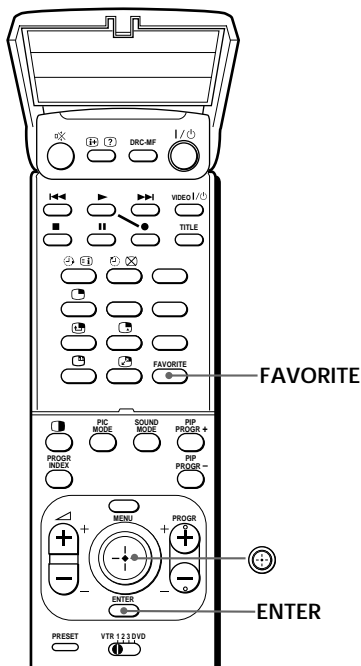
The DRC-MF logo () and “DRC-MF” are trademarks of Sony Corporation.

Viewing your favorite channels

— “FAVORITE CH”

You can display seven favorite channels for quick and easy selection.

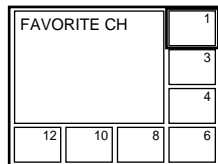
The last seven channels selected with the number buttons are displayed in “AUTO” mode. You can set up your own favorite channels in “MANUAL” mode under the “FAVORITE CH” menu (see “Changing the favorite channel setting” on page 42).





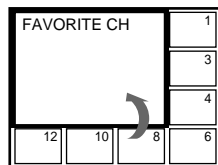
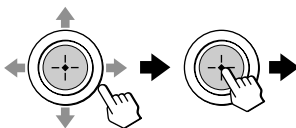
Selecting a favorite channel

- 1 Press FAVORITE.

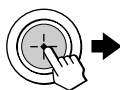
FAVORITE



- 2 Move  up, down, left or right to select the desired channel (e.g. PR 8), then press .



- 3 Press  again.



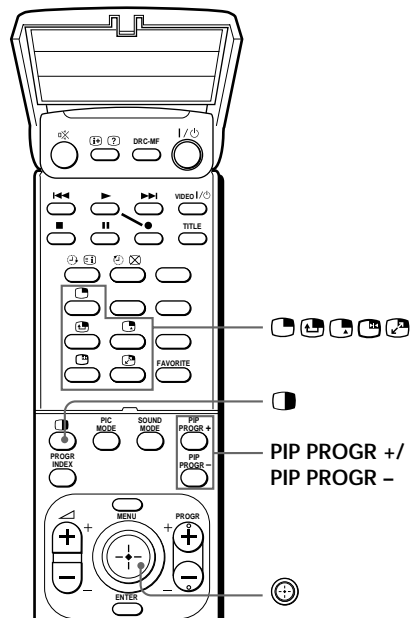
Note

- When you use your projection TV for the first time, seven preset channels appear.

Watching two programs at the same time

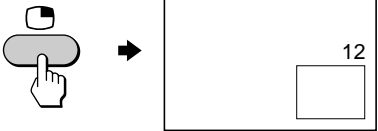
— “PIP”, “TWIN”

With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different TV program or video within or beside the main picture.



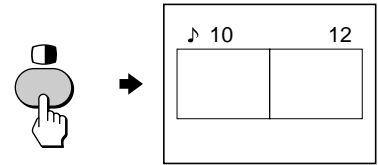
Displaying the PIP screen

Press .





Displaying TWIN pictures

Press .








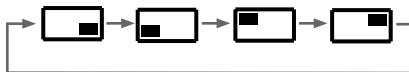




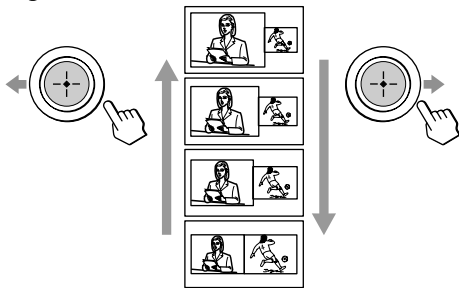
To return to the normal screen

Press  (when in the PIP screen) or  (when in the TWIN picture screen).




Tip

- You can also display the PIP screen or TWIN pictures using the menu (see “Changing the MULTI PICTURE setting” on page 36).

Additional PIP/TWIN pictures tasks

| To | Press/Move |
|--|--|
| change a TV program in the PIP screen or in the right TWIN picture | Press PIP PROGR + or PIP PROGR -. For a video input, press  . |
| swap pictures between the main and PIP screens | Press  . <div>  </div> |
| freeze the PIP screen | Press  . To unfreeze the screen, press the button again. |
| change the position of the PIP screen | Press  . <div>  </div> |
| swap the right and left pictures of the TWIN pictures | Press  . <div>  </div> |
| change the screen size of the TWIN pictures | Move  left to increase the left screen size. Move  right to increase the right screen size. <div>  </div> |

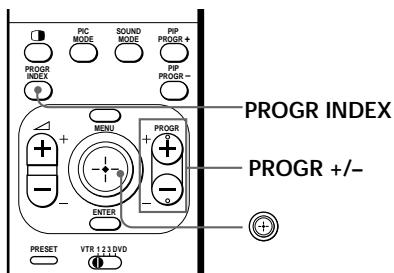
Notes

- The  button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the projection TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen ( appears on the screen).
- When the  button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the projection TV.

Displaying multiple programs

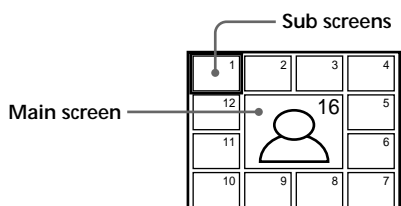
— “PROGRAM INDEX”

The PROGRAM INDEX feature displays all of the preset TV programs on twelve or seven sub screens for direct selection.

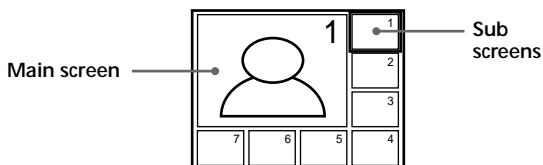


Press PROGR INDEX.

The first twelve preset programs appear one by one, clockwise from the upper left corner.



When the number of the preset TV programs is less than eight, the first seven preset programs appear one by one, clockwise from the upper right corner.



Tip

- When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.


To view the next or the previous twelve preset programs

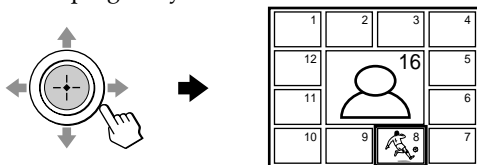
This works only when the number of the preset TV programs is more than twelve.


Press PROGR +/- on the remote or the projection TV.

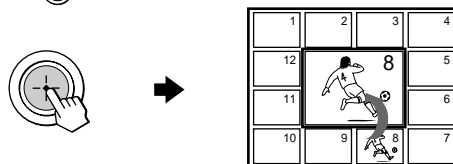


To select the desired program directly from the sub screens

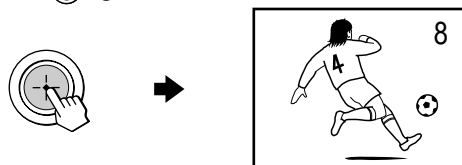
- 1 Move  up, down, left or right to move the frame to the screen of the program you want to watch.



- 2 Press .



- 3 Press  again.




Tip

- Pressing the number buttons directly displays the program.

To return to the normal screen

Press PROGR INDEX again, or:

- 1 Select "PROGRAM INDEX" from the "MULTI PICTURE" menu.
- 2 Press .

Tip

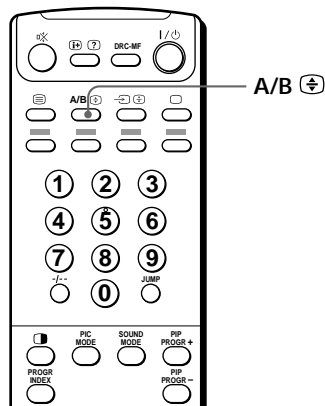
- You can also display multiple programs using the menu (see "Changing the MULTI PICTURE setting" on page 36).

Note

- When displaying multiple programs, only the sound of the main screen is heard.

Enjoying stereo or bilingual programs

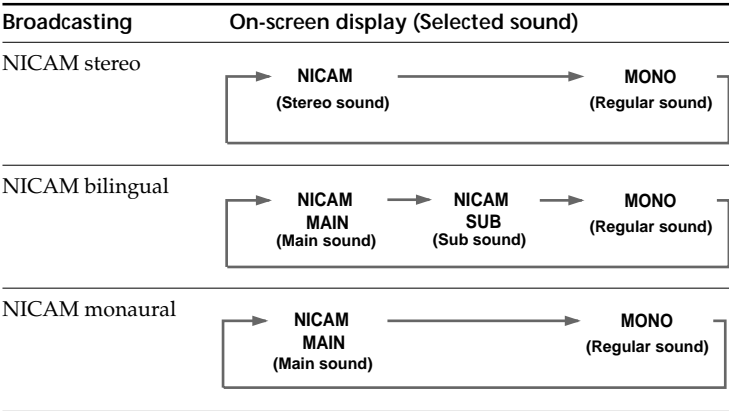
You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



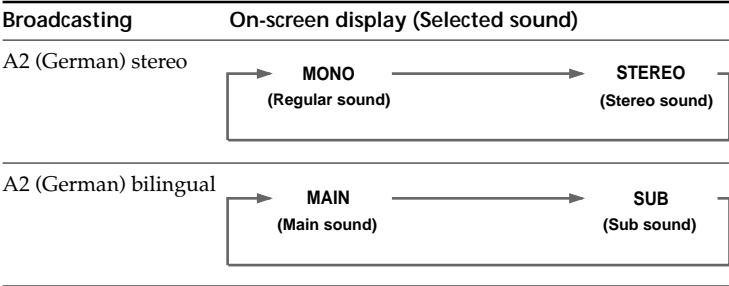
Press A/B repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound and the indicator on the projection TV lights up red.

When receiving a NICAM program



When receiving an A2 (German) program



Receiving area for NICAM and A2 (German) programs

| System | Receiving area |
|-------------|---|
| NICAM | Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc. |
| A2 (German) | Australia, Malaysia, Thailand, etc. |

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select “MONO”. The sound becomes monaural, but the noise is reduced.
- Before receiving a NICAM stereo program in China, please check the NICAM broadcast condition at your area. When receiving a NICAM stereo program, the receiving conditions might vary depending on area. In addition, different strength of the NICAM broadcast signal might affect the receiving quality.

If the sound is distorted or noisy when receiving a monaural program through the ㄗ (antenna) terminal

Press A/B repeatedly until “MONO” appears on the screen.

To cancel the monaural sound setting, press A/B again until “AUTO” appears on the screen.

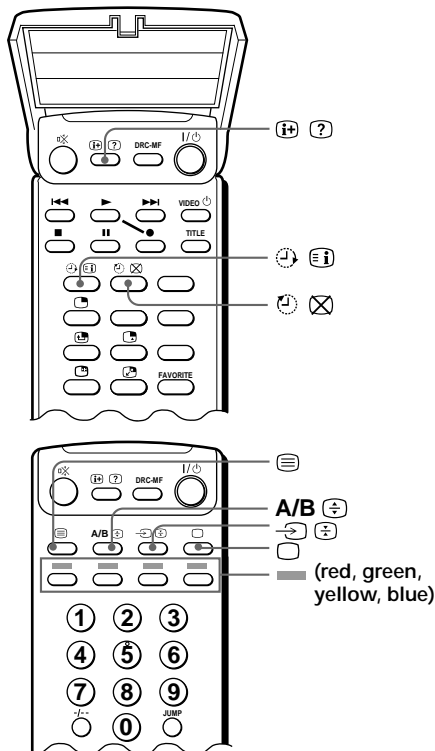


Notes

- The “MONO” or “AUTO” setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when the projection TV is in the “MONO” setting. Normally, set the projection TV to “AUTO”.

Viewing Teletext

Some TV stations broadcast an information service called Teletext which allows you to receive various information, such as stock market reports and news.



Displaying Teletext

1 Select a TV channel that carries the Teletext broadcast you want to watch.

2 Press to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100?" is displayed at the top left corner of the screen after approximately 10 seconds.















| | | | | | |
|-----------------------------------|-----|-----------|--------|----------|--|
| P166 SECTEXT 166 FR1 MAR 03:59:09 | | | | | |
| TRAVEL | | | | | |
| From Singapore | Day | Dep/Arr | Flight | Aircraft | |
| To PARIS | 1.6 | 2200/0658 | SQ205 | 747 | |
| | 2 | 2130/1225 | BA115 | 119 | |
| | 3 | 2110/1530 | SQ205 | 747 | |
| To OSAKA | 2.5 | 1000/1715 | SQ6 | 747 | |
| | 4.6 | 0950/2015 | CX322 | L10 | |
| To ROMA | 2.7 | 2130/0745 | SQ24 | 747 | |
| | 4 | 2300/0915 | AZ607 | 747 | |
| To SYDNEY | 1 | 2210/0610 | SQ21A | 747 | |
| | 2 | 2100/0630 | SQ21A | 747 | |

To turn off Teletext





Press .

Additional Teletext tasks

| To | Do this |
|---|---|
| display a Teletext page on the TV picture | Press  . Each time you press  , the screen changes as follows: Teletext → Teletext and TV → TV. |
| check the contents of a Teletext service | Press  . An overview of the Teletext contents, including page numbers, appears on the screen. |
| select a Teletext page | Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/-. |
| hold (pause) a Teletext page (stop the page from scrolling) | Press  to display the symbol "  " at the top left corner of the screen. To resume normal Teletext viewing, press  or  . |
| reveal concealed information (e.g., an answer to a quiz) | Press  . To conceal the information, press the button again. |
| enlarge the Teletext display | Press  . Each time you press  , the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size. |
| stand by for a Teletext page while watching a TV program | 1 Enter the Teletext page number that you want to refer to, then press  . 2 When the page number is displayed, press  to show the text. |

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT

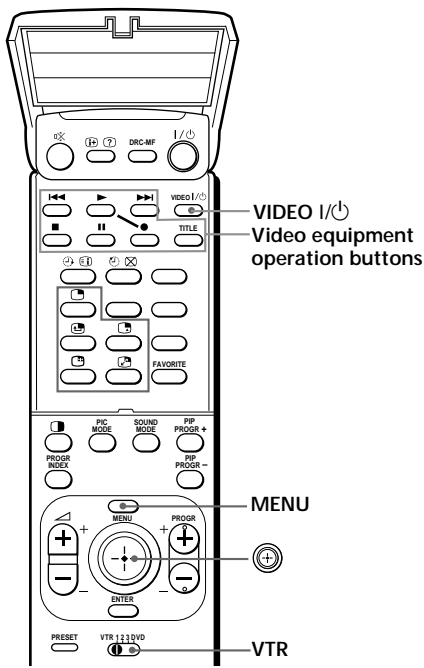
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcast, colored menus appear at the bottom of the screen. The color of each menu corresponds to the color-coded buttons on the remote (red  , green  , yellow  , and blue ).

To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after a few seconds.

Operating optional components

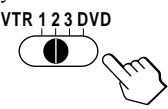
You can use the supplied remote to operate Sony video equipment such as Beta, 8 mm, VHS or DVD.



Setting up the remote to work with other connected equipment

Switch VTR to select the desired equipment type (see the chart below).

For example, to operate a Sony 8 mm VCR:

















| To control | Select |
|-------------|--------|
| DVD | DVD |
| VTR1 (Beta) | 1 |
| VTR2 (8 mm) | 2 |
| VTR3 (VHS) | 3 |










Notes

- If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR switch.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.

Operating a VCR using the remote

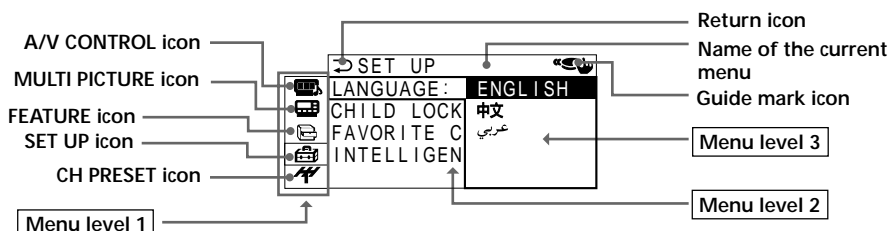
| To | Press |
|---|---|
| turn on/off | VIDEO 1 /  |
| record |  while pressing  . |
| play |  |
| stop |  |
| fast forward () |  |
| rewind the tape () |  |
| pause |  Press again to resume normal playback. |
| search the picture forward () or backward () |  or  during playback. Release to resume normal playback. |




Operating a DVD player using the remote



| To | Press |
|--|---|
| turn on/off | VIDEO 1 /  |
| play |  |
| stop |  |
| pause |  Press again to resume normal playback. |
| step through different tracks of an audio disc |  to step forward or  to step backward. |
| display the title menu | TITLE |
| display the menu | MENU while holding down  . |
| select the menu item | Move  up, down, left or right while holding down  . |

Introducing the menu system

The MENU button lets you open a menu and change the settings of your projection TV. The following is an overview of the menu system.



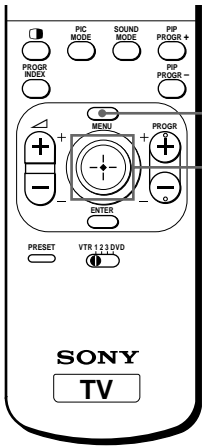
| Level 1 | Level 2 | Level 3/Function |
|---|-----------------|---|
| "A/V CONTROL"  | "DRC-MF" | Select the "DRC-MF" mode: "DRC1250" → "DRC100" |
| | "PICTURE MODE" | Select the picture mode: "DYNAMIC" → "STANDARD" → "HI-FINE" → "PERSONAL" → "ADJUST" |
| | "ADJUST" | Adjust the "PERSONAL" option: "PICTURE" → "COLOR" → "BRIGHT" → "HUE" → "SHARP" |
| | "SOUND MODE" | Select the sound mode: "DYNAMIC" → "DRAMA" → "SOFT" → "PERSONAL" → "ADJUST" |
| | "ADJUST" | Adjust the "PERSONAL" option: "BASS" → "TREBLE" → "BALANCE" |
| "MULTI PICTURE"  | "SPEAKER" | Select the "SPEAKER" mode: "MAIN" → "CENTER IN" |
| | "PIP" | Activate or deactivate the PIP feature. |
| | "PIP POSITION" | Change the position of the sub screen. |
| | "SWAP" | Swap the pictures between the main and sub screens. |
| | "TWIN" | Display a TV program or video beside the main screen. |
| "FEATURE"  | "PROGRAM INDEX" | Display all the preset TV programs at the same time. |
| | "WIDE MODE" | Activate or deactivate WIDE MODE feature. |
| | "ECO MODE" | Activate or deactivate ECO MODE feature. |
| | "GAME MODE" | Activate or deactivate GAME MODE feature. |

| Level 1 | Level 2 | Level 3/Function |
|--|-------------------|--|
| "SET UP"  | "LANGUAGE" | Change the menu language: "ENGLISH" → "中文" (Chinese) → "عربي" (Arabic) |
| | "CHILD LOCK" | Lock out specific channels. |
| | "FAVORITE CH" | Set favorite channels. |
| | "INTELLIGENT VOL" | Adjust the volume automatically. |
| "CH PRESET"  | "AUTO PROGRAM" | Preset channels automatically. |
| | "MANUAL PROGRAM" | Preset channels manually. |
| | "SKIP" | Skip unwanted or unused program numbers. |
| | "TV SYS" | Select the TV system: "B/G" → "I" → "D/K" → "M" |
| | "COL SYS" | Select the color system: "AUTO" → "PAL" → "SECAM" → "NTSC3.58" → "NTSC4.43" |

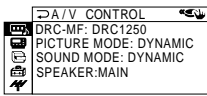
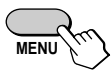
continued

Introducing the menu system (continued)

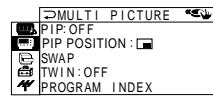
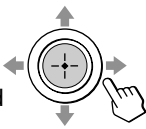
How to use the menu



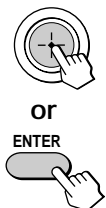
Press MENU to display the menu.



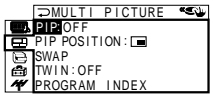
Move the button joystick (⊕) up, down, left or right to select the desired item.



Press the button joystick (⊕) to confirm the selection and/or go to the next level. You can also press ENTER on the remote to do this.



OR ENTER



Other menu operations

| To | Press/Move |
|--------------------------------------|---------------------------------|
| Adjust the setting value | Move ⊕ up, down, left or right. |
| Move to the next/previous menu level | Move ⊕ left or right. |
| Cancel the menu | Press MENU. |

Tips

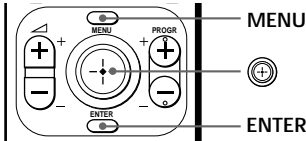
- If you want to exit from Menu level 2 to Menu level 1, move ⊕ up or down until the return icon (↶) is highlighted, then press ⊕ or ENTER.
- The MENU, ENTER, and ↶ / + - buttons on the projection TV can also be used for the operations above.
- The ⬆ + and ⬇ - buttons on the projection TV can also be used instead of moving the button joystick (⊕) up or down.

Note

- If more than 60 seconds elapse between entries, the menu screen automatically disappears.

Changing the “A/V CONTROL” setting

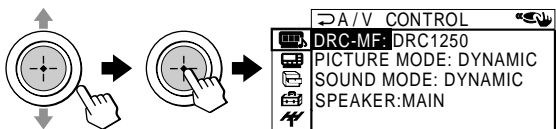
The “A/V CONTROL” menu allows you to adjust the picture and sound settings.



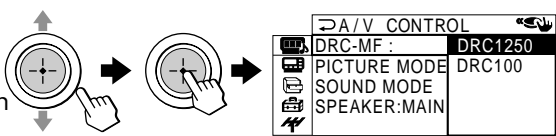
1 Press MENU.



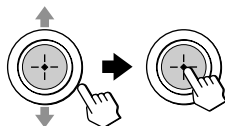
2 Move up or down to select , then press .



3 Move up or down to select either “DRC-MF”, “PICTURE MODE”, “SOUND MODE”, or “SPEAKER”, then press .



4 Move up or down to select the desired option, then press .



| For | Select |
|----------------|--|
| “DRC-MF” | either “DRC1250” or “DRC100”. |
| “PICTURE MODE” | either “DYNAMIC”, “STANDARD”, “HI-FINE”, “PERSONAL”*, or “ADJUST”. |
| “SOUND MODE” | either “DYNAMIC”, “DRAMA”, “SOFT”, “PERSONAL”*, or “ADJUST”. |
| “SPEAKER” | either “MAIN” or “CENTER IN”. |

* When the “PERSONAL” mode is selected, the last adjusted picture/sound settings from the “ADJUST” option are received (see page 34).

Tip

- For details on the options under the “DRC-MF”, “PICTURE MODE”/ “SOUND MODE”, and “SPEAKER” modes, see pages 18, 17 and 35 respectively.

To return to the normal screen



Press MENU.

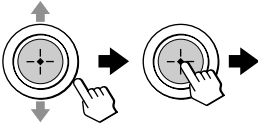
continued

Changing the “A/V CONTROL” setting (continued)


Adjusting the “ADJUST” options under “PICTURE MODE”


1



Move  up or down to select the desired item (e.g., “COLOR”), then press .



COLOR



2 Adjust the value according to the following table, then press .



| For | Move  down or left to | Move  up or right to |
|-----------|--|---|
| “PICTURE” | decrease picture contrast | increase picture contrast |
| “COLOR” | decrease color intensity | increase color intensity |
| “BRIGHT” | darken the picture | brighten the picture |
| “HUE”* | increase red picture tones | increase green picture tones |
| “SHARP” | soften the picture | sharpen the picture |

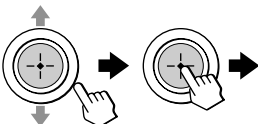
* You can adjust “HUE” for the NTSC color system only.

3 Repeat the above steps to adjust other items.
The adjusted settings will be received when you select “PERSONAL”.


Adjusting the “ADJUST” options under “SOUND MODE”


1


Move  up or down to select the desired item (e.g., “BALANCE”), then press .



BALANCE




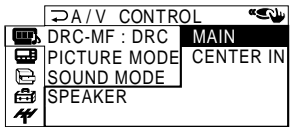
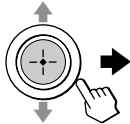
2 Adjust the value according to the following table, then press .

| For | Move  |
|-----------|---|
| “BASS” | down or left to decrease the bass, up or right to increase the bass. |
| “TREBLE” | down or left to decrease the treble, up or right to increase the treble. |
| “BALANCE” | down or left to increase the left speaker’s volume, up or right to increase the right speaker’s volume. |


3 Repeat the above steps to adjust other items.
The adjusted settings will be received when you select “PERSONAL”.

Setting the “SPEAKER” options

1 In the “SPEAKER” menu, move  up or down to select the desired option (see table below).



| Select | To |
|-------------|--|
| “MAIN” | listen to the sound from a projection TV. |
| “CENTER IN” | use the projection TV speakers as center speakers. |

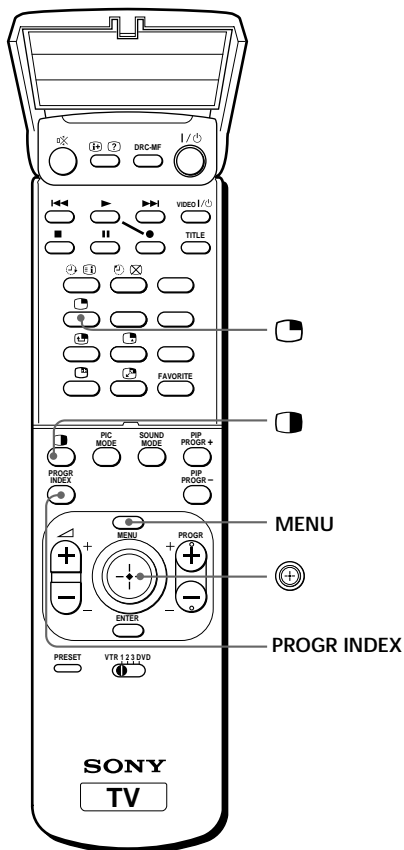
2 Press  to confirm the selected option.



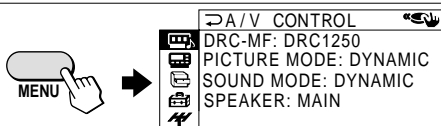
- Tip**
- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 30.

Changing the "MULTI PICTURE" setting

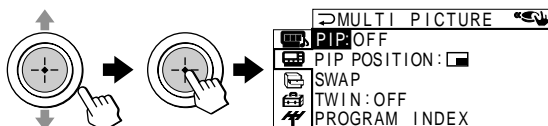
The "MULTI PICTURE" menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.





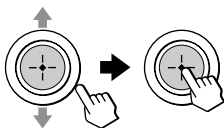
- 1 Press MENU.





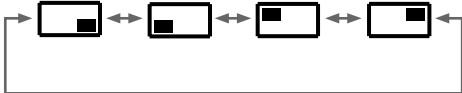




- 2 Move up or down to select , then press .



- 3** Move  up or down to select the desired option (see the table below), then press .



| Select | To |
|-----------------|--|
| "PIP" | display the PIP screen within the main picture. Move  up or down to select "ON", then press  . |
| "PIP POSITION" | change the position of the PIP screen. Move  up or down to select the desired position, then press  . |
| |  |
| "SWAP" | swap the main and PIP screens, or right and left pictures of the TWIN pictures. |
| "TWIN" | display a different TV program or video beside the main picture. Move  up or down to select "ON", then press  . |
| "PROGRAM INDEX" | view multiple programs on the sub-screens. To cancel, press PROGR INDEX. |

To return to the normal screen

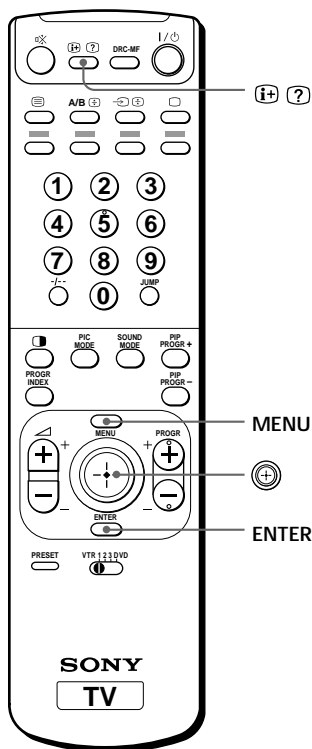
Press MENU.

Tip

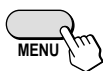
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 30.

Changing the "FEATURE" setting

The "FEATURE" menu allows you to change the size of the picture on the screen when receiving wide mode (16:9) picture signals. You can also adjust the picture setting that is suitable for viewing video games, and reduce the power consumption of your projection TV.

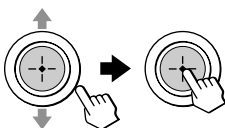


1 Press MENU.





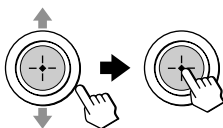
| A/V CONTROL | |
|---------------|---------|
| DRC-MF: | DRC1250 |
| PICTURE MODE: | DYNAMIC |
| SOUND MODE: | DYNAMIC |
| SPEAKER: | MAIN |



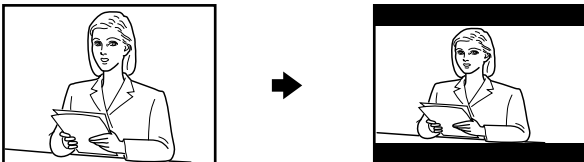







2 Move up or down to select , then press .








| FEATURE | |
|------------|-----|
| WIDE MODE: | OFF |
| ECO MODE: | OFF |
| GAME MODE: | OFF |

- 3** Move  up or down to select the desired option (see the table below), then press .



| Select | To |
|-------------|--|
| "WIDE MODE" | <p>change the size of the picture when receiving wide-mode (16:9) picture signal.</p> <p>Move  up or down to select "ON", then press .</p> <div data-bbox="376 466 960 628" data-label="Image">  </div> <p>To restore the normal picture size, select "OFF" then press .</p> |
| "ECO MODE" | <p>reduce power consumption of your projection TV to save energy.</p> <p>Move  up or down to select "ON", then press .</p> <p>To cancel, select "OFF", then press .</p> |
| "GAME MODE" | <p>adjust the picture setting that is suitable to view video games.</p> <p>Move  up or down to select "ON", then press .</p> <p>To cancel, select "OFF", then press .</p> |

Notes

- When you turn on "ECO MODE", the picture may become dimmer. Turning "ECO MODE" off will restore the picture to its original setting.
- "WIDE MODE" is available only when you have selected DRC1250 (NTSC mode) in the "A/V CONTROL" menu with video input or DVD input.
- "WIDE MODE" and "GAME MODE" is available only when receiving signals through the  (video input),  (S video input), or  (component video input) jacks at the front and rear of your projection TV.
- If "ECO MODE" is on, the ECO MODE () icon will appear at the bottom right corner of the screen when you turn on the projection TV or when you press  on the remote. (See pages 13 and 14)

To return to the normal screen

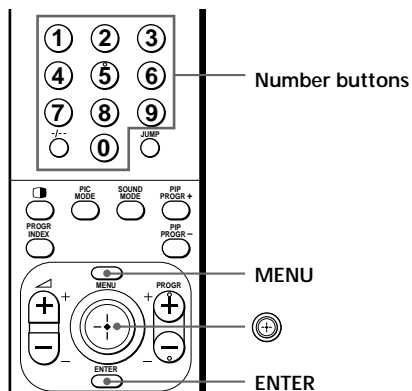
Press MENU.

Tip

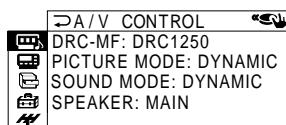
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 30.

Changing the "SET UP" setting

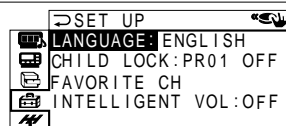
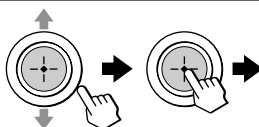
The "SET UP" menu allows you to: change the menu language, block channels, adjust the picture position, program your favorite channels, and adjust the volume automatically.



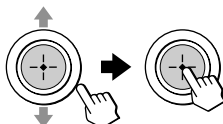
- 1 Press MENU.



- 2 Move up or down to select , then press .



- 3 Move up or down to select the desired option, then press .





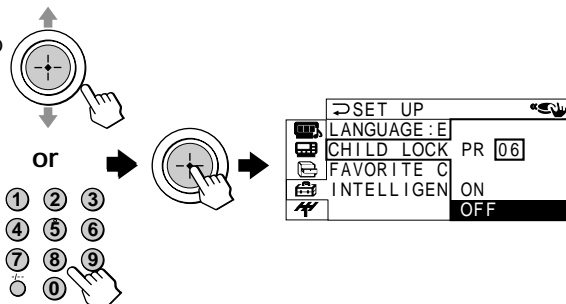
| Select | To |
|-------------------|---|
| "LANGUAGE" | change the menu language (see page 15). |
| "CHILD LOCK" | block channels (see page 41). |
| "FAVORITE CH" | select your favorite channels (see pages 19 and 42). |
| "INTELLIGENT VOL" | adjust the volume of all TV programs automatically. Move up or down to select "ON", then press . To cancel, select "OFF", then press . |



To return to the normal screen

Press MENU.


Blocking channels ("CHILD LOCK")

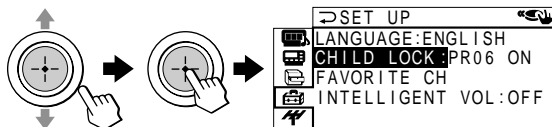
- 1** After selecting "CHILD LOCK", either move  up or down, or press the number buttons (or PROGR +/-) to select the desired channel (e.g. PR 06), then press .



- 2** Move  up or down to select "ON", then press .

To unlock the channel, select "OFF".

The lock symbol () appears on the screen when "ON" is selected.



If a locked channel is selected, the lock symbol appears on the screen.



- 3** Repeat steps 1 and 2 to lock other channels.

To return to the normal screen

Press MENU.


Note

- If you preset a locked channel, that channel will be unlocked automatically (see page 43).

continued

Changing the "SET UP" setting (continued)

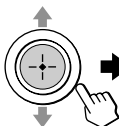
Changing the favorite channel setting

- 1** After selecting "FAVORITE CH", make sure "MODE" is selected, then press .





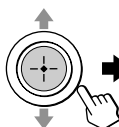
| FAVORITE CH | |
|-------------|--------|
| MODE: | AUTO |
| 1. PR01 | MANUAL |
| 2. PR02 | |
| 3. PR06 | |
| 4. PR08 | |

- 2** Move  up or down to select "MANUAL", then press .





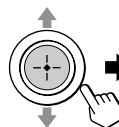
| FAVORITE CH | |
|--------------|---------|
| MODE: MANUAL | |
| 1. PR01 | 5. PR09 |
| 2. PR02 | 6. PR11 |
| 3. PR06 | 7. PR13 |
| 4. PR08 | |

- 3** Move  up or down to select the program you want to change, then press .



| FAVORITE CH | |
|--------------|---------|
| MODE: MANUAL | |
| 1. PR01 | 5. PR09 |
| 2. PR02 | 6. PR11 |
| 3. PR06 | 7. PR13 |
| 4. PR08 | |

- 4** Move  up or down to change the number, then press .



| FAVORITE CH | |
|--------------|---------|
| MODE: MANUAL | |
| 1. PR01 | 5. PR09 |
| 2. PR02 | 6. PR11 |
| 3. PR05 | 7. PR13 |
| 4. PR08 | |

- 5** Repeat steps 3 and 4 to set other channels.

To return to the normal screen

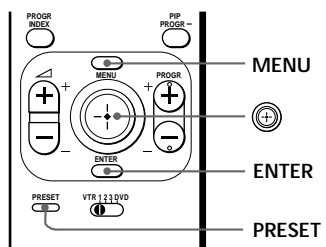
Press MENU.

Note

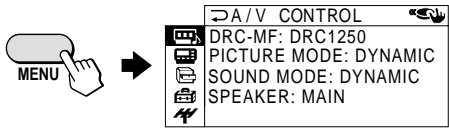
- If you press the PROGR +/- buttons or number buttons in step 4 above, the projection TV will display the channel immediately.

Changing the “CH PRESET” setting

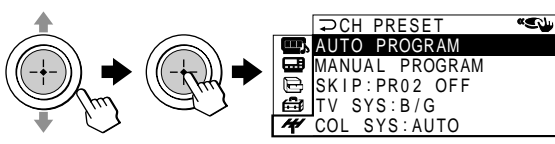
The “CH PRESET” menu allows you to adjust the setup of your projection TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



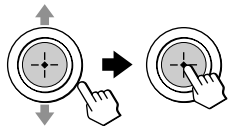
1 Press MENU.



2 Move up or down to select , then press .



3 Move up or down to select the desired option, then press .



| Select | To |
|------------------|--|
| “AUTO PROGRAM” | preset channels automatically. |
| “MANUAL PROGRAM” | preset channels manually. See “Presetting channels manually” on page 44. |
| “SKIP” | skip unwanted or unused channels. 1 Either move up or down, or press the number buttons (or PROGR +/-) until the unused or unwanted channel number appears, then press . |
| | 2 Select “ON”, then press . |
| | 3 To disable other channels, repeat steps 1 and 2. |
| | To restore the skipped channel, select “OFF” in step 2. |
| “TV SYS” | select the TV system. |
| “COL SYS” | select the color system. Normally, set this to “AUTO”. |

To return to the normal screen

Press MENU.

Tip

- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 30.

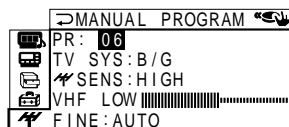
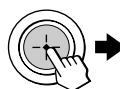
continued



Changing the "CH PRESET" setting (continued)

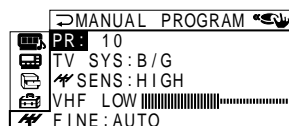
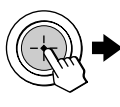
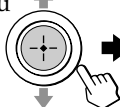
Presetting channels manually

- 1** After selecting "MANUAL PROGRAM", select the program number to which you want to preset a channel.

(1) Make sure "PR" is selected, then press .





(2) Move  up or down until the program number you want to preset (e.g., program number "10") appears on the menu, then press .

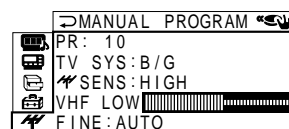
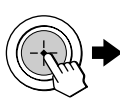
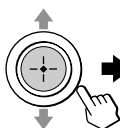




Tips

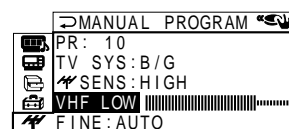
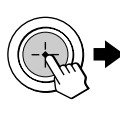
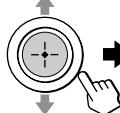
- You can also select the "MANUAL PROGRAM" menu directly by pressing the PRESET button on the remote.
- You can also select the program number with the PROGR +/- or number buttons.

- 2** Select the desired channel.

(1) Move  up or down to select either "VHF LOW", "VHF HIGH", or "UHF", then press .

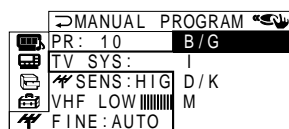
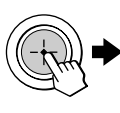
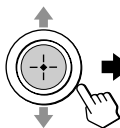




(2) Move  up or down until the desired channel's broadcast appears on the TV screen, then press .

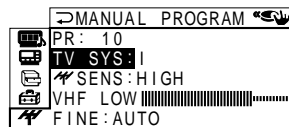
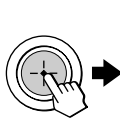
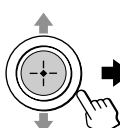


- 3** If the sound of the desired channel is abnormal, select the appropriate TV system.



(1) Move  up or down to select "TV SYS", then press .

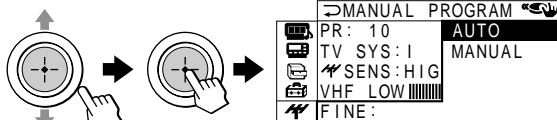




(2) Move  up or down until the sound becomes normal, then press .

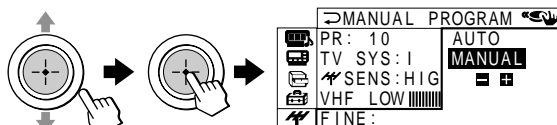




4 If you are not satisfied with the picture and sound quality, you may be able to improve them by using the "FINE" tuning feature.

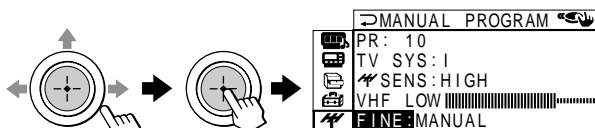
- (1) Move  up or down to select "FINE", then press .





- (2) Move  up or down to select "MANUAL", then press .

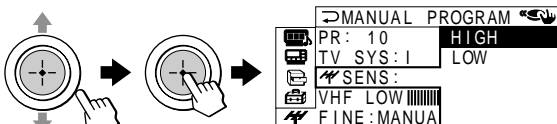


- (3) Move  either up, down, left or right until the picture and sound quality are optimal, then press . The + or - icon on the menu flashes while tuning.

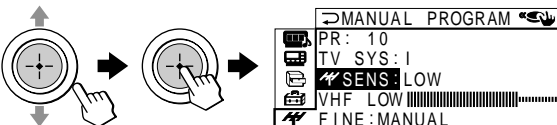


5 If the TV signal is too strong and the picture is distorted, you can adjust the TV reception sensitivity.

- (1) Move  up or down to select "SENS", then press .



- (2) Move  up or down to select "LOW", then press .



To return to the normal screen

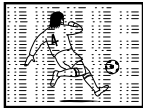







Press MENU.







Notes

- The TV system ("TV SYS") and the TV reception sensitivity ("SENS") settings are memorized for each program number.
- If you preset a locked channel, that channel will be unlocked automatically (see page 41).

Troubleshooting

If you have any problem while viewing your TV, please check the following troubleshooting guide. If the problem persists, contact your Sony dealer.

| Symptom | Possible cause | Solutions | Page |
|---|--|--|----------|
| Snowy picture  | <ul style="list-style-type: none"> The connection is loose or the cable is damaged. | <ul style="list-style-type: none"> Check the antenna cable and connection on the projection TV, VCR and at the wall. | 5 |
| Noisy sound  | <ul style="list-style-type: none"> Channel presetting is inappropriate or incomplete. | <ul style="list-style-type: none"> Press the PRESET button to display the "MANUAL PROGRAM" menu and preset the channel again. | 44 |
| | <ul style="list-style-type: none"> The antenna type is inappropriate. | <ul style="list-style-type: none"> Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. | – |
| | <ul style="list-style-type: none"> The antenna direction needs adjustment. | <ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. | – |
| | <ul style="list-style-type: none"> Signal transmission is low. | <ul style="list-style-type: none"> Try using a booster. | – |
| Distorted picture  | <ul style="list-style-type: none"> Broadcast signals are too strong. | <ul style="list-style-type: none"> Press the PRESET button to display the "MANUAL PROGRAM" menu. Then, select "SENS: LOW". Turn off or disconnect the booster if it is in use. | 45 |
| Noisy sound  | | | – |
| Good picture  | <ul style="list-style-type: none"> The TV system setting is inappropriate. | <ul style="list-style-type: none"> If the sound of all the channels are noisy, display the "CH PRESET" menu and select "AUTO PROGRAM" to preset the channels again. If the sound of some channels is noisy, select the channel, then display the "CH PRESET" menu and select the appropriate TV system ("TV SYS"). | 43 |
| Noisy sound  | | | 44 |
| No picture  | <ul style="list-style-type: none"> The power cord, antenna or VCR is not connected. | <ul style="list-style-type: none"> Check the power cord, antenna and the VCR connections. | 5 |
| No sound  | <ul style="list-style-type: none"> The projection TV is not turned on. | <ul style="list-style-type: none"> Press I/⏻ on the remote. Press ① on the TV to turn off the projection TV for about five seconds, then turn it on again. | 13 14 |

| Symptom | Possible cause | Solutions | Page |
|--|--|--|-------------------|
| Good picture  | <ul style="list-style-type: none"> The volume level is too low. The sound is muted. The broadcast signal has a transmission problem. | <ul style="list-style-type: none"> Press $\triangle +$ to increase the volume level. Press \otimes to cancel the muting. Press A/B until a better sound is heard. | 14 14 24 |
| No sound  | <ul style="list-style-type: none"> The "SPEAKER" setting in the "AV CONTROL" menu is inappropriate. | <ul style="list-style-type: none"> When connecting to $\square \leftarrow C-$ (center speaker input) on your projection TV to use the projection TV speakers as center speakers, set SPEAKER: CENTER IN, or set SPEAKER: MAIN to listen to the sound from a projection TV. | 35 |
| Dotted lines or stripes  | <ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc. | <ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the projection TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. | — — |
| Double images or "ghosts"  | <ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction needs adjustment. Use of a booster is inappropriate. | <ul style="list-style-type: none"> Use a highly directional antenna. Use the fine tuning ("FINE") function. Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. | — 45 — — |
| No color  | <ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction needs adjustment. | <ul style="list-style-type: none"> Display the "A/V CONTROL" menu and select "ADJUST" of "PICTURE MODE", then adjust the "COLOR" level. Display the "CH PRESET" menu and check the color system ("COL SYS") setting (usually set this to "AUTO"). Adjust the antenna direction. Contact a Sony dealer for advice. | 34 43 — |
| Abnormal color patches  | <ul style="list-style-type: none"> The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the projection TV. | <ul style="list-style-type: none"> Locate external speakers or other equipment away from the projection TV. Do not move the projection TV while the projection TV is turned on. Press ① on the projection TV to turn off the TV for about five minutes, then turn it on again. | — |



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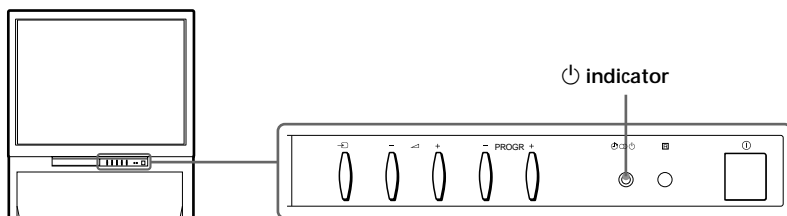
Troubleshooting (continued)





| Symptom | Possible cause | Solutions | Page |
|--|--|--|------|
| Projection TV cannot receive stereo broadcast signal. | <ul style="list-style-type: none"> The stereo reception setting is inappropriate. | <ul style="list-style-type: none"> Press A/B until "AUTO" appears on the screen. | 24 |
| Stereo broadcast sound switches on and off or is distorted. | <ul style="list-style-type: none"> The connection is loose or the cable is damaged. | <ul style="list-style-type: none"> Check the antenna cable and connection on the projection TV, VCR and on the wall. | 5 |
| OR | <ul style="list-style-type: none"> The antenna direction needs adjustment. | <ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. | — |
| The sound switches between stereo and monaural frequently. | <ul style="list-style-type: none"> The broadcast signal has a transmission problem. | <ul style="list-style-type: none"> Press A/B until a better sound is heard. | 24 |
| "100?" appears at the top of the screen after approximately 10 seconds and there is no Teletext display. | <ul style="list-style-type: none"> The channel carries no Teletext broadcast. | — | 26 |
| Teletext display is incomplete (snowy picture or double images). | <ul style="list-style-type: none"> Connection is loose or the cable is damaged. | <ul style="list-style-type: none"> Check the antenna cable and connection on the projection TV, VCR, and at the wall. | 5 |
| | <ul style="list-style-type: none"> The antenna direction is inappropriate. | <ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. | — |
| | <ul style="list-style-type: none"> Signal transmission is too low. | <ul style="list-style-type: none"> Try using a booster. | — |
| | | <ul style="list-style-type: none"> Use the fine tuning ("FINE") function. | 45 |
| Lines moving across the TV screen. | <ul style="list-style-type: none"> There is interference from external sources, e.g., heavy machineries, nearby broadcast station. | <ul style="list-style-type: none"> Use the fine tuning ("FINE") function. | 45 |
| Cannot play shooting games. | <ul style="list-style-type: none"> Some shooting games which involve pointing a light beam at the projection TV screen with an electronic gun or rifle cannot be used with your TV. For detail, see the instruction manual supplied with the video game software. | — | — |

| Symptom | Possible cause | Solutions | Page |
|--|---|-----------|------|
| TV cabinet creaks. | <ul style="list-style-type: none"> Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction. | — | — |
| Static discharge is felt when touching the TV cabinet. | <ul style="list-style-type: none"> This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction. | — | — |

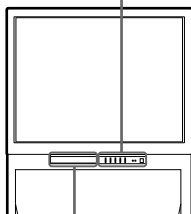
Self-diagnosis function

Your projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the  (standby) indicator flashes red. The number of times the  indicator flashes indicates the possible causes.



- 1 Check that the  indicator flashes red a number of times between 3-second intervals.
- 2 Count the number of times the  indicator flashes.
- 3 Press  (main power) to turn off your projection TV.
- 4 Inform your nearest Sony service center about the number of times the  indicator flashed.
Be sure to note the model name and serial number located on the rear of your projection TV.

Front and inside the front cover

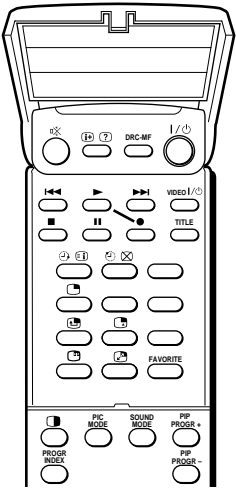
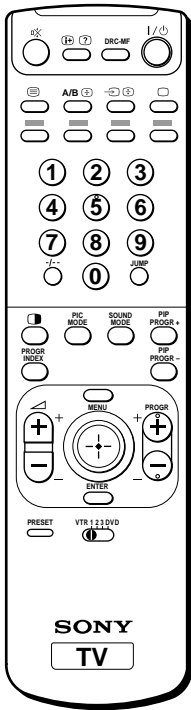


The front panel features the following controls from left to right:

- A small circular button with a speaker icon.
- A large circular button with a cassette tape icon and a play button icon.
- A small rectangular button with a cassette tape icon.
- A label "4" above a horizontal line.
- A label "L(MONO) → R" above two circular buttons.
- A small rectangular button with a cassette tape icon.
- A small circular button with a cassette tape icon.
- A label "ENTER" above a circular button.
- A label "-" above a circular button with a downward arrow.
- A label "+" above a circular button with an upward arrow.
- A label "MENU" above a circular button.

50 | Additional Information

Remote control



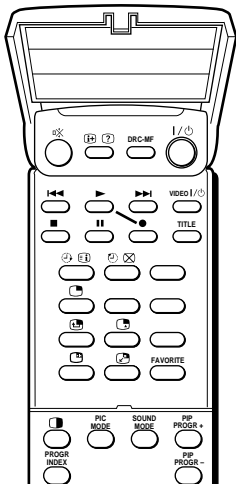
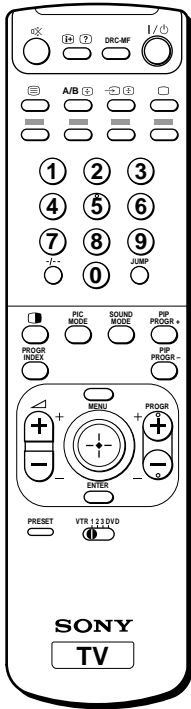
The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

| Label color | Button function |
|-------------|---------------------------|
| White | For general TV operations |
| Green | For Teletext operations |
| Yellow | For PIP operations |

| Button | Function | Page |
|---------------------------------|--|------|
| I / | Turn off temporarily or turn on the projection TV. | 13 |
| PROGR +/- | Select program number. | 13 |
| 0 - 9, -/- | Input numbers. | 13 |
| | Display on-screen information. | 14 |
| | Mute the sound. | 14 |
| | Display the TV program. | 14 |
| | Select TV or video input. | 14 |
| +/- | Adjust volume. | 14 |
| JUMP | Jump to previous channel. | 14 |
| Timer operations | | |
| | Set projection TV to turn on automatically. | 16 |
| | Set projection TV to turn off automatically. | 16 |
| SOUND MODE | Select sound mode. | 17 |
| PIC MODE | Select picture mode. | 17 |
| DRC-MF | Select DRC-MF mode. | 18 |
| Favorite Channel operations | | |
| FAVORITE | Display favorite channels. | 19 |
| | Select desired channel. | 19 |
| PIP and Twin picture operations | | |
| | Display the PIP screen. | 20 |
| | Display TWIN pictures. | 20 |
| | Adjust Twin picture size. | 21 |
| PIP PROGR +/- PIP PROGR - | Change program in PIP / Twin picture. | 21 |
| | Select video input for PIP / Twin picture. | 21 |
| | Swap main and PIP/Twin picture. | 21 |
| | Freeze PIP screen. | 21 |
| | Adjust position of PIP screen. | 21 |

continued

Identifying parts and controls (continued)



| Button | Function | Page |
|--------------------------------|---|------|
| Program Index operations | | |
| PROGR INDEX | Display all preset TV programs. | 22 |
| PROGR +/- | View next/previous 12 TV programs. | 22 |
| | Select desired channel. | 23 |
| Stereo/bilingual operations | | |
| A/B | Select stereo/bilingual mode. | 24 |
| Teletext operations | | |
| | Display Teletext broadcast. | 26 |
| | Display Teletext service contents. | 27 |
| | Stop Teletext page from scrolling. | 27 |
| | Reveal concealed information. | 27 |
| | Enlarge the Teletext display. | 27 |
| | Show TV screen while waiting for Teletext page. | 27 |
| 0 - 9 | Input Teletext page number. | 27 |
| PROGR +/- | Display the next or previous page. | 27 |
| | Access a FASTEXT menu. | 27 |
| Optional components operations | | |
| VTR | Set up the remote. | 28 |
| VIDEO I/⏻ | Power. | 29 |
| TITLE | Display the title menu. | 29 |
| | Play. | 29 |
| | Fast forward/Search forward. | 29 |
| | Rewind/Search backward. | 29 |
| | Record. | 29 |
| | Stop. | 29 |
| | Pause. | 29 |
| Menu operations | | |
| MENU | Display the menu. | 32 |
| | Select, adjust and confirm selected items. | 32 |
| ENTER | Confirm selected items. | 32 |
| PRESET | Display "MANUAL PROGRAM" menu. | 44 |